



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20040003

Agency Interest No. 2049

Mr. Mike Cohen
Vice President and General Manager
BASF Corporation
P. O. Box 457
Geismar, Louisiana 70734-0457

RE: Part 70 Operating Permit, TDI Plant, BASF Corp,
Geismar Site, Geismar Ascension Parish, Louisiana

Dear Mr. Cohen:

This is to inform you that the permit renewal for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until the permitting authority takes final action on the application for renewal. The interest number cited above should be referenced in future correspondence.

- Routed for Public Notice

Done only 17.

Perm Dr. Brown doesn't sign

Since yet!

Chuc Randy D.
Assis
CCB:

cc: E

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

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**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**BASF Corp – Geismar Site
Agency Interest No.: 2049
TDI Plant
Geismar, Ascension Parish, Louisiana**

I. Background

BASF Corp - Geismar Site, an existing SOCMI facility, operates a chemical manufacturing complex on the east bank of the Mississippi River near Geismar between I-10 and Hwy 75. Geismar Site is divided into a number of areas for permitting under Part 70: Chemical Intermediates—North/Acetylenics Complex which includes 1,4-butanediol (1,4-BD), gamma-butyrolactone (GBL), n-methyl pyrrolidone (NMP), tetrahydrofuran (THF), and polytetrahydrofuran (Poly THF) plants; Acetylene Plant; Amines Complex; Aniline 1 Plant; Aniline 2 Plant; EO/EG (ethylene oxide/ethylene glycol) Plant; Glyoxal Plant; MDI (methylene(bis)phenylisocyanate) 1 Plant; MDI 2 Plant; NVP / PVP (vinylpyrrolidone /polyvinylpyrrolidone) Plant; TDI (toluene diisocyanate) Plant; and the Utilities Plant.

The TDI Plant located in the complex currently operates under Permit No. 2643-V0, issued November 4, 1999. This is the Part 70 operating permit renewal for the TDI Plant.

II. Origin

A permit application and Emission Inventory Questionnaire was submitted by BASF Corp on March 31, 2004, requesting a Part 70 operating permit renewal and providing a reconciliation of emissions to as-built conditions. Additional information was received dated March 20, 2007, April 27, 2007, May 2, 2007, May 3, 2007, May 4, 2007, May 11, 2007, May 18, 2007, June 22, 2007, June 27, 2007, July 12, 2007, July 18, 2007, July 30, 2007, August 2, 2007, August 9, 2007, August 29, 2007, and September 20, 2007.

III. Description

The TDI plant manufactures toluediisocyanate (TDI), which is formed from the reaction of phosgene and toluediamine (TDA). The TDI Plant consists of seven primary process areas: TDA production, phosgene synthesis, phosgenation (crude TDI production), TDI distillation, tank farm operations (drum filling and storage), offgas treatment and TDI Flare, and TDI Utilities. The plant produces an estimated 440 MM pounds of TDI, 327 MM pounds of TDA as an intermediate, and 387 MM pounds of HCl, annually.

TDA is synthesized by catalytic hydrogenation from dinitrotoluene in liquid phase. Excess hydrogen is burned in the TDI Flare. Distillation is then used to separate TDA from byproducts. The byproducts include ammonia, o-toluidine, vicinals (TDA isomers), polymers, and wastewater. The o-toluidine is collected and shipped to a waste incinerator and the wastewater is pumped through carbon treatment to the plant moat system. The high boiling polymers are mixed with waste alcohol from another BASF Geismar Plant and shipped offsite for

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incineration.

For phosgene synthesis, carbon monoxide and chlorine are mixed and converted to phosgene in a tubular reactor charged with activated carbon. During phosgenation, the synthesized TDA is mixed with phosgene and toluene. The offgas from overhead, which consists mainly of phosgene and hydrogen chloride (HCl), is then separated by distillation and phosgene is recycled. Phosgene, toluene, hydrogen chloride, and chlorinated byproducts from the bottoms are separated in a further series of distillation towers for TDI purification.

The pure TDI is condensed, cooled and pumped to the tank farm. From the high-boiling byproducts separated from the pure TDI, TDA tar is removed and the TDA is recycled back to the process. The byproducts can also be reacted out to form a non-reactive waste in the Urethane Blending Section.

Offgas treatment is used for the waste gas formed during phosgene generation and phosgenation, and consists mainly of HCl, CO, N₂, and traces of phosgene (COCl₂) and toluene. Waste gas goes through chilled toluene absorbers to remove phosgene, and then is routed to the flare. During normal operation, HCl is sent to customers offsite via pipeline. HCl can be absorbed in water to produce 37% hydrochloric acid. The remaining waste gas is passed through a scrubber to eliminate chlorides as well as traces of phosgene and then sent to the flare. Waste gas from the flexiduct system, containment ventilation and the phosgene relief header go to the main destruct tower T-510, which is a caustic scrubber.

Utilities comprise the distribution network for the steam condensate, cooling tower and other process water, N₂, process and breathing air, process toluene, and offgas and wastewater pretreatment.

As part of this permit renewal request, BASF is reconciling emissions in the TDI Plant to as-built conditions. Emission changes are due solely to this reconciliation.

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Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	13.16	13.18	+0.02
SO ₂	0.02	0.03	+0.01
NO _X	5.54	6.56	+1.02
CO	83.19	115.97	+32.78
VOC *	13.76	10.30	-3.46

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
2,4-Dinitrotoluene	0.85	0.06	-0.79
2,6-Dinitrotoluene	0.21	0.02	-0.19
Benzene	0	0.001	+0.001
Benzyl chloride	0.01	0	-0.01
n-Butanol	0.02	0.05	+0.03
Carbon Tetrachloride	0.001	0.31	+0.309
Chloroform	0.01	0.008	-0.002
Chlorobenzene	0	0.004	+0.004
Formaldehyde	0	0.002	+0.002
n-Hexane	0	0.08	+0.08
Methanol	0.30	0.68	+0.38
Methylenediphenyl Diisocyanate	0.001	0.002	+0.001
Phosgene	0.01	0.01	0
o-Toluidine	0.16	0.31	+0.15
Toluene	1.96	2.46	+0.50
Diaminotoluene (Toluenediamine)	1.47	1.13	-0.34

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***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Toluenediisocyanate	0.05	0.02	-0.03
Total	5.052	5.147	0.095

Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Ammonia	3.98	4.40	+0.42
Chlorine	0.01	0.14	+0.13
Hydrochloric Acid	0.51	3.92	+3.41
Total	4.50	8.46	3.96

***Other VOC (TPY):** 5.15

IV. Type of Review

This permit was reviewed for compliance with the Louisiana Part 70 operating permit program, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) regulations, and Non-Attainment New Source Review (NNSR) do not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

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VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2007; and in the *Gonzales Weekly*, Gonzales, on <date>, 2007. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>, 2007. The draft permit was also submitted to US EPA Region VI on <date>, 2007. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Dispersion Model(s) Used: <None>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})

VIII. General Condition XVII Activities

Work Activity	Schedule	PM ₁₀	Emission Rates - tons			
			SO ₂	NO _X	CO	VOC
Purging TDA equipment through D-107 to T-150	Purge 4 hours, 25 times/year					0.004*
Phosgene Section	3 hours,					0.85

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Start Up	once/year	
Purging equipment through D-670 to flare	8 hours, 52 times/year	0.023*
Reacting Out TDI waste drums	100 drums/year	0.041*
Maintenance Activities (vessel openings, tank shutdowns, equipment purges)	Varies	3.8*
Lab Samples	Daily	0.001*
Tank Gauging	Once/year	0.001*

* Speciated HAPs/TAPs

Work Activity	Emission Rates - tons					
	Ammonia	Toluidine	Toluene	HCl	TDI	TDA
Purging TDA equipment through D-107 to T-150	0.052	0.002				
Purging equipment through D-670 to flare			0.023			
Reacting Out TDI waste drums			0.041			
Maintenance Activities	0.10	0.001	3.61			
Lab Samples				0.01	0.001	<0.001
Tank Gauging		0.001				

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IX. Insignificant Activities

ID No.:	Description	Citation
	Diesel Fuel Tank (370 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3.
	Lab Hood Vent Emissions	Insignificant Activity per LAC 33:III.501.B.5.A.6.
	Catalyst Charging	Insignificant Activity per LAC 33:III.501.B.5.A.11.
	Portable Cooling Tower Emissions	Insignificant Activity per LAC 33:III.501.B.5.A.12.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2122	2147	2153	29*	51*	53	56
EQT342	TDI Facility	1																
EQT343	TDI01 - Toluene Tank TK-703					2												
EQT497	TDI02(d)/TDI19(a) - D-721A Wet Toluene Tank		1	1	2													
EQT498	TDI02(e)/TDI19(b) – D-721B Dry Toluene Solvent Tank				3													
EQT499	TDI02(f) - TDA Reactor Processes				3													
EQT500	TDI02(g) - TDA Distillation Processes													3				
EQT501	TDI02(h) - TDI Reactor Processes													3				
EQT502	TDI02(i) - TDI Distillation Processes													3				
EQT550	TDI02(g) – T-110/S114 Toluidine Drum/T-120													3				
EQT551	TDI02(g) – D-137 TDA Tar Storage													3				
EQT552	TDI02(g)/TDI19(d) – D-138 TDA Tar Storage													3				
EQT574	TDI02(f) D-104 Crude TDA Surge Drum													3				

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ID No.:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2122	2147	2153	29*	51*	53	56
EQT554	TDI02(h) T-520 Caustic Scrubber Tower Vent											3			1			
EQT555	TDI02(i) T-504 Toluene Drying											3			1			
EQT568	TDI02(e)/TDI19(c) D-415 Residue Storage Tank							3							1			
EQT344	TDI03 - Vicinal Loading Carbon Adsorber								3						1			
EQT345	TDI04 - TDI Plant Cooling Tower No. 1														1			
EQT346	TDI05 - TDI Plant Cooling Tower No. 2														1			
EQT347	TDI06 - TDI Plant Cooling Tower No. 3														1			
EQT348	TDI07 - TDI Carbon Adsorber								3		1				1			
EQT503	TDI07(a) - TK-701A TDI Tank								3						1			
EQT504	TDI07(b) - TK-701B TDI Tank								3						1			
EQT505	TDI07(c) - TK-701C TDI Tank								3						1			
EQT506	TDI07(d) - TK-701D TDI Tank								3						1			
EQT507	TDI07(e) - TK-701E TDI Tank								3						1			

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ID No.:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2122	2147	2153	29*	51*	53	56
EQT508	TDI07(f) - TK-701F TDI Tank						3									1		
EQT509	TDI07(g) - TK-701G TDI Tank						3									1		
EQT510	TDI07(h) - TK-701H TDI Tank						3									1		
EQT511	TDI07(i) - TK-701I TDI Tank						3									1		
EQT512	TDI07(j) - TK-701J TDI Tank						3									1		
EQT513	TDI07(k) - TK-727 Overflow Tank						3									1		
EQT514	TDI07(l) - TDI Rail Loading						3									1		
EQT515	TDI07(m) - TDI Truck Loading						3									1		
EQT349	TDI08 - TK-704 Toluene Tank						3									1		
EQT350	TDI09 - TK-331 TDA Sump Storage Tank						3								2	3		
EQT351	TDI10 - TK-340 Offspec Water Tank						3								2	1		
EQT352	TDI11 - HCl Storage and Loading Scrubber															1		
EQT516	TDI11(a) - TK-702A HCl Tank															1		
EQT517	TDI11(b) - TK-702B HCl Tank															1		
EQT518	TDI11(c) - TK-702C HCl Tank															1		

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ID No.:	Description	LAC 33:III.Chapter												5▲	9	11	13	15
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2122	2147					
EQT519	TDI11(d) - TK-702D HCl Tank						3											
EQT520	TDI11(e) - HCl Rail Loading						3											
EQT521	TDI11(f) - HCl Truck Loading						3											
EQT353	TDI12 - TDA Water Scrubber Vent T-150																	
EQT354	TDI13 - Destruct Tower Caustic Scrubber T-510																	
FUG18	TDI14 - TDI Plant Fugitive Emissions								1	1	1							
EQT355	TDI15 - Residue Constituent Recovery Vent Scrubber T-435																	
EQT571	TDI15(a) R-420 Vent																	
EQT572	TDI15(b) T-430 Water Recovery Column																	
EQT356	TDI16 - TDI Carbon Adsorber																	
EQT357	TDI17 - DNI Drum D-705																	
EQT358	TDI18 - TK-709 Spike Tank Carbon Drum D-709																	
EQT359	TDI19 - Waste Product Loading Carbon Drum																	

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ID No.:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2122	2147	2153	29*	51*	53	56
EQT522	French Drain Wastestream (NA)														2	1		
EQT523	K112 Wastestream (T-120 Bottoms) (NA)														2	1		

* The regulations indicated above are State Only regulations.

▲ LAC 33:III.C.6 citations are federally enforceable except when it specifically states that the regulations are state only.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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ID No.:	Description	40 CFR 60 NSPS				40 CFR 61 NESHAP				40 CFR 63 NESHAP				40 CFR				
		A	Kb	VV	NNN	RRR	YYY	M	V	FF	A	F	G	H	Q	Y	Z	Z
	TDI Facility							1		1	1	1	1	1		2	1	1
EQT342	TDI01 - Toluene Tank TK-703							2							1	1		
EQT343	TDI02 - TDI Flare							3							1	1		
EQT497	TDI02(d)/TDI19(a) - D-721A Wet Toluene Tank							3							1	1		
EQT498	TDI02(e)/TDI19(b) - D-721B Dry Toluene Solvent Tank							3							1	1		
EQT499	TDI02(f) - TDA Reactor Processes														1	1		
EQT500	TDI02(g) - TDA Distillation Processes								1						1	1		
EQT501	TDI02(h) - TDI Reactor Processes									1					1	1		
EQT502	TDI02(i) - TDI Distillation Processes										1				1	1		
EQT550	TDI02(g) - T-110/S114 Toluidine Drum/T-120														1	1		
EQT551	TDI02(g) - D-137 TDA Tar Storage									3					1	1		
EQT552	TDI02(g)/TDI19(d) - D-138 TDA Tar Storage									3					1	1		

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ID No.:	Description	40 CFR 60 NSPS			40 CFR 61 NESHAP			40 CFR 63 NESHAP			40 CFR									
		A	Kb	VV	NNN	RRR	YYY	M	V	FF	A	F	G	H	Q	Y	NNNN	64	68	82
EQT574	TDI02(j) D-104 Surge Drum																1			
EQT554	TDI02(h) T-520 Caustic Scrubber Tower Vent							3										1		
EQT555	TDI02(i) T-504 Toluene Drying							3									1			
EQT568	TDI02(e)/TDI19(c) D-415 Residue Storage Tank							3									1			
EQT344	TDI03 - Vicinals Loading Carbon Adsorber																1		1	
EQT345	TDI04 - TDI Plant Cooling Tower No. 1																1		1	3
EQT346	TDI05 - TDI Plant Cooling Tower No. 2																1		1	3
EQT347	TDI06 - TDI Plant Cooling Tower No. 3																1		1	3
EQT348	TDI07 - TDI Carbon Absorber																1		1	3
EQT503	TDI07(a) - TK-701A TDI Tank							3									1		1	
EQT504	TDI07(b) - TK-701B TDI Tank							3									1		1	

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ID No.:	Description	40 CFR 60 NSPS			40 CFR 61 NESHAP			40 CFR 63 NESHAP			40 CFR									
		A	Kb	VV	NNN	RRR	YYY	M	V	FF	F	G	H	Q	Y	NNNN	ZZZ	64	68	82
EQT505	TDI07(c) - TK-701C TDI Tank	3														1	1			
EQT506	TDI07(d) - TK-701D TDI Tank	3														1	1			
EQT507	TDI07(e) - TK-701E TDI Tank	3														1	1			
EQT508	TDI07(f) - TK-701F TDI Tank	3														1	1			
EQT509	TDI07(g) - TK-701G TDI Tank	3														1	1			
EQT510	TDI07(h) - TK-701H TDI Tank	3														1	1			
EQT511	TDI07(i) - TK-701I TDI Tank	3														1	1			
EQT512	TDI07(j) - TK-701J TDI Tank	3														1	1			
EQT513	TDI07(k) - TK-727 Overflow Tank	3														1	1			
EQT514	TDI07(l) - TDI Rail Loading	3														1	1			
EQT515	TDI07(m) - TDI Truck Loading															1	1			
EQT349	TDI08 - TK-704 Toluene Tank	3														3	3			
EQT350	TDI09 - TK-331 TDA Sump Storage Tank	3														1	1			
																3	3			

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ID No.:	Description	40 CFR 60 NSPS					40 CFR 61 NESHAP					40 CFR 63 NESHAP					40 CFR				
		A	Kb	VV	NNN	RRR	YYY	M	V	FF	A	F	G	H	Q	Y	NNNN	64	68	82	
EQT351	TDII10 - TK-340 Offspec Water Tank	3									1										
EQT352	TDII11 - HCl Storage and Loading Scrubber										1	3	3								
EQT516	TDII11(a) - TK-702A HCl Tank	3									1										
EQT517	TDII11(b) - TK-702B HCl Tank	3									1	3	3								
EQT518	TDII11(c) - TK-702C HCl Tank	3									1	3	3								
EQT519	TDII11(d) - TK-702D HCl Tank	3									1	3	3								
EQT520	TDII11(e) - HCl Rail Loading										1	3	3								
EQT521	TDII11(f) - HCl Truck Loading										1	3	3								
EQT353	TDI12 - TDA Water Scrubber Vent T-150										1	1	1								
EQT354	TDI13 - Destruct Tower Caustic Scrubber T-510													3							
FUG18	TDI14 - TDI Plant Fugitive Emissions		1							3	1	1	1								
EQT355	TDI15 - Residue Constituent Recovery Vent Scrubber T-435										1	1	1								

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61 NESHAP			40 CFR 63 NESHAP			40 CFR					
		A	Kb	VV	NNN	RRR	YYY	M	V	FF	A	F	G	H	Q	Y
EQT571	TDI15(a) R-420 Vent										1	1				
EQT572	TDI15(b) T-430 Water Recovery Column										1	1				
EQT356	TDI16 - TDI Carbon Absorber	2									1	1				
EQT357	TDI17 - DNT Drum D-705	3									3					
EQT358	TDI18 - TK-709 Spike Tank Carbon Drum D-709										1	1	1			
EQT359	TDI19 - Waste Product Loading Carbon Drum										1	1	1			
EQT522	French Drain Wastestream (NA)										2			2		
EQT523	K112 Wastestream (T-120 Bottoms (NA))										1		1			

* The regulations indicated above are State Only regulations.

- ▲ LAC 33:III.501.C.6 citations are federally enforceable except when it specifically states that the regulations are state only.

KEY TO MATRIX

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- 1** -The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
TDI Facility	Compliance Assurance Monitoring [40 CFR 64]	DOES NOT APPLY. Control devices are subject to the HON.
TDI01 Toluene Tank TK-703	Storage of Volatile Organic Liquids [LAC 33.III.2103] NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia. EXEMPT. Tank was constructed prior to July 23, 1984, and has not been modified since that date.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G (63.119-123), Storage Vessel Provisions Control Requirements] LAC 33.III.5109 A Comprehensive TAP Emission Control Program: Emission Control and Reduction Requirements and Standards	EXEMPT FROM CONTROL. Tank stores an OHAP but is a Group 2 storage vessel per Table 5 of 40 CFR 63, Subpart G. No further control specified. Recordkeeping requirements apply. DOES NOT APPLY. Class III TAP only. MACT is not required.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
TDI02 Flare	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO ₂ standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147]	DOES NOT APPLY. Streams vented to the flare are subject to HON Subpart G and are exempt from this regulation. [LAC 33:III.2147.A.2.g]
	NSPS Subpart A – General Control Device Requirements [40 CFR 60.18]	DOES NOT APPLY. The flare does not receive vent streams from sources subject to NSPS.
	Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. Streams vented to the flare are subject to HON Subpart G and are exempt from this regulation [LAC 33:III.2115]
TDI02(d,e) D-721A Wet Toluene Tank/D-721B Dry Toluene Tank/D-415 Residue Storage	Storage of Volatile Organic Liquids [LAC 33:III.2103]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia.
	NSPS Subpart Kb – Volatile Organic Liquid Storage [40 CFR 60.110b]	DOES NOT APPLY. These tanks have a storage capacity <19,800 gallons.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G (63.119-123), Storage Vessel Provisions Control Requirements]	DOES NOT APPLY. Group 2 storage vessels. No control required. Recordkeeping requirements apply. Control by flare or carbon adsorber on EQT359 is discretionary. [LAC 33:III.2147.A.2.g]
TDI02(f) TDA Reactor Processes (D-104 Crude TDA Drum)	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147]	DOES NOT APPLY. Streams vented to the flare are subject to HON Subpart G and are exempt from this regulation. [LAC 33:III.2147.A.2.g]
TDI02(g) TDA Distillation Processes (D-137,D-138 TDA Tar Storage)	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147]	DOES NOT APPLY. Streams vented to the flare are subject to HON Subpart G and are exempt from this regulation. [LAC 33:III.2147.A.2.g]
	NSPS Subpart NNN – SOCMI Distillation Operations [40 CFR 60.660]	DOES NOT APPLY. Applicability requirements are encompassed under HON requirements. [LAC 33:III.2147.A.2.g]
TDI02(h) TDI Reactor Processes	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147]	DOES NOT APPLY. Streams vented to the flare are subject to HON Subpart G and are exempt from this regulation. [LAC 33:III.2147.A.2.g]
	NSPS Subpart RRR – SOCMI Reactor Operations [40 CFR 60.700]	DOES NOT APPLY. Reaction equipment M-300 and J-300 applicability requirements are encompassed under HON requirements.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
TDI02(i) TDI Distillation Processes(T-504 Toluene Drying)	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147]	DOES NOT APPLY. Streams vented to the flare are subject to HON Subpart G and are exempt from this regulation. [LAC 33:III.2147.A.2.g]
NSPS Subpart NNN – SOCMI Distillation Operations [40 CFR 60.660]		DOES NOT APPLY. Applicability requirements are encompassed under HON requirements.
TDI03 TDA Vicinals Loading Carbon Adsorber	Storage of Volatile Organic Liquids [LAC 33:III.2107]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Transfer Operations]	EXEMPT FROM CONTROL. The rack is a Group 2 Transfer Operation based on a weighted average vapor pressure <1.5 psia. No additional control is specified. Recordkeeping requirements apply. Carbon Adsorber discretionary.
	NESHAP Subpart Y – National Emission Standards for Marine Tank Vessel Tank Loading Operations [40 CFR 63.560]	DOES NOT APPLY. Not a marine loading facility.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
TDI04 Cooling Tower No. 1, TDI05 Cooling Tower No. 2, TDI06 Cooling Tower No. 3	National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers [40 CFR 63 Subpart Q]	DOES NOT APPLY. BASF does not use chromium based water treatment chemicals in its cooling towers.
TDI07 and TDI16 TDI Carbon Adsorbers	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. The vent stream received has a combined weight of <100 lbs of VOC in any continuous 24 hour period. Record and retain at the site for at least 2 years the records required to demonstrate criteria are being met for any exemption claimed. [LAC 33:III.2115.K.4]
TDI07(a-j) /TDI16(a-j) TDI Tanks TK-701A-TK-701J	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G]	EXEMPT FROM CONTROL. The adsorber is used as a control device, but is not required since tanks are Group 2 HON sources.
	Storage of Volatile Organic Liquids [LAC 33:III.2103]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tanks were constructed prior to July 23, 1984, and have not been modified since that date.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Storage Vessel Provisions]	EXEMPT FROM CONTROL. Group 2 storage vessels. Recordkeeping requirements apply.
	Storage of Volatile Organic Liquids [LAC 33:III.2103]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Storage Vessel Provisions]	DOES NOT APPLY. Tank has a storage capacity <10,000 gallons and does not meet the definition of a storage vessel under the HON.
	Storage of Volatile Organic Liquids [LAC 33:III.2107]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Transfer Operations]	DOES NOT APPLY. Racks are vapor balanced with any residual going to the TDI Carbon Adsorber. Do not meet the definition of load racks under the HON.

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ID No:	Requirement	Notes
	NESHAP Subpart Y – National Emission Standards for Marine Tank Vessel Tank Loading Operations [40 CFR 63.560]	DOES NOT APPLY. This source is not a marine loading facility.
TDI08 TK-704 Toluene Tank	Storage of Volatile Organic Liquids [LAC 33:III.2103]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank has a storage capacity <19,900 gallons.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Storage Vessel Provisions]	EXEMPT FROM CONTROL. Group 2 storage vessel. No additional control required. Recordkeeping requirements apply.
TDI09 TK-331 TDA Sump Storage Tank	Storage of Volatile Organic Liquids [LAC 33:III.2103] Limiting Volatile Organic Compound Emissions from Industrial Wastewater [LAC 33:III.2153]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia. EXEMPT. The wastewater stream is subject to HON wastewater provisions and exempt from this section. [LAC 33:III.2153.G.6]

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ID No:	Requirement	Notes
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. The liquid stored in this tank has a vapor pressure of <0.75 psia.
TDI10 TK-340 Offspec Water Tank	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Wastewater Streams] Storage of Volatile Organic Liquids [LAC 33:III.2103] Limiting Volatile Organic Compound Emissions from Industrial Wastewater [LAC 33:III.2153]	DOES NOT APPLY. This stream contains < 5 ppmw total OHAPs. Does not meet the definition of wastewater under the HON. DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia. EXEMPT. The wastewater stream is subject to HON wastewater provisions and exempt from this section [LAC 33:III.2153.G.6]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity is <19,800 gallons.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
TDI11 HCl Storage and Loading Scrubber	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Process Vent Provisions]	DOES NOT APPLY. Does not meet the definition of a process vent under the HON. [40 CFR 63.107(d); Subpart F]
TDI11(a-d) TK-702A/702B/702C/702D HCl Tanks	Storage of Volatile Organic Liquids [LAC 33:III.2103]	DOES NOT APPLY. These tanks do not store a volatile organic liquid.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. These tanks do not store a volatile organic liquid.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Storage Vessel Provisions]	DOES NOT APPLY. Tanks do not store an OHAP listed in Table 2 of 40 CFR 63, Subpart F, and thus do not meet the definition of process storage vessels under the HON.
TDI11 (e, f) HCl Rail and Truck Loading	Storage of Volatile Organic Liquids [LAC 33:III.2107]	DOES NOT APPLY. This source loads HCl, which is not a VOC.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Transfer Operations]	DOES NOT APPLY. This source loads HCl, which is not an OHAP listed in Table 2 of 40 CFR 63, Subpart F. Therefore, the source does not meet the definition of a transfer operation under the HON.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
TDI12 TDA Water Scrubber Vent T-150	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. The vent stream received has a combined weight of <100 lbs of VOC in any continuous 24-hour period. Record and retain at the site for at least 2 years the records required to demonstrate criteria are being met for any exemption claimed. [LAC 33:III.2115.K.4]
	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147]	EXEMPT. Receives vent stream subject to HON Subpart G and are exempt from this regulation. [LAC 33:III.2147.A.2.g]
	Hazardous Organic NESHAP (HON) Subparts F and G [40 CFR 63.100 and 63.113]	EXEMPT FROM CONTROL. Group 2 vents. No additional controls required. Recordkeeping requirements apply.
TDI13 Destruct Tower Caustic Scrubber T-510	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. The vent stream received has a combined weight of <100 lbs of VOC in any continuous 24-hour period. Record and retain at the site for at least 2 years the records required to demonstrate criteria are being met for any exemption claimed. [LAC 33:III.2115.K.4]

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ID No:	Requirement	Notes
	Limiting VOC Emissions from SOCMR Reactor Processes and Distillation Operations [LAC 33:III.2147]	DOES NOT APPLY. Vent stream has a concentration of <500 ppm by volume of VOC, therefore is exempt. [LAC 33:III.2147.A.2.e]
	Hazardous Organic NESHAP (HON) Subparts F and G [40 CFR 63.100 and 63.113]	DOES NOT APPLY. Vents do not meet definition of process vent.
TDI14 TDI Plant Fugitive Emissions	National Emission Standard for Equipment Leaks (Fugitive Emission Sources) [40 CFR 61 Subpart V]	DOES NOT APPLY. The TDI Plant does not have any equipment in benzene or vinyl chloride service.
TDI15 Residue Constituent Recovery Vent Scrubber T-435, R-420 Vent, T-430 Water Recovery Column Vent	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. The vent stream received has a combined weight of <100 lbs of VOC in any continuous 24-hour period. Record and retain at the site for at least 2 years the records required to demonstrate criteria are being met for any exemption claimed. [LAC 33:III.2115.K.4]
	Limiting VOC Emissions from SOCMR Reactor Processes and Distillation Operations [LAC 33:III.2147]	EXEMPT. Receives vent stream subject to HON Subpart G and is exempt from this regulation. [LAC 33:III.2147.A.2.g]

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ID No:	Requirement	Notes
	Hazardous Organic NESHAP (HON) Subparts F and G [40 CFR 63.100 and 63.113]	EXEMPT FROM CONTROL. Group 2 vents. No additional control required. Recordkeeping requirements apply.
TDI17 DNT Drum D-705	Storage of Volatile Organic Liquids [LAC 33:III.2103] NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. The vapor pressure of the stored liquid is <1.5 psia. DOES NOT APPLY. This tank has a storage capacity <19,800 gallons.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Storage Vessel Provisions]	DOES NOT APPLY. Tank is <10,000 gallons and does not meet the definition of a storage vessel under the HON.
TDI18 TK-709 Spike Tank Carbon Drum D-709	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. The vent stream received has a combined weight of <100 lbs of VOC in any continuous 24-hour period. Record and retain at the site for at least 2 years the records required to demonstrate criteria are being met for any exemption claimed. [LAC 33:III.2115.K.4]

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ID No:	Requirement	Notes
	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147]	EXEMPT. Receives vent stream subject to HON Subpart G and is exempt from this regulation. [LAC 33:III.2147.A.2.g]
	Hazardous Organic NESHAP (HON) Subparts F and G [40 CFR 63.100 and 63.113]	EXEMPT FROM CONTROL. Group 2 storage vessel vents. No control is required. Adsorber is discretionary. Recordkeeping requirements apply.
	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. The vent stream received has a combined weight of <100 lbs of VOC in any continuous 24-hour period. Record and retain at the site for at least 2 years the records required to demonstrate criteria are being met for any exemption claimed. [LAC 33:III.2115.K.4]
	TDI19 Waste Product Loading Carbon Drum	EXEMPT. Receives vent stream subject to HON Subpart G and is exempt from this regulation. [LAC 33:III.2147.A.2.g]
	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147]	EXEMPT FROM CONTROL. Group 2 vents. No control is required. Adsorber is discretionary. Recordkeeping requirements apply.
	Hazardous Organic NESHAP (HON) Subparts F and G [40 CFR 63.100 and 63.113]	

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ID No:	Requirement	Notes
French Drain Wastestream	Limiting Volatile Organic Compound Emissions from Industrial Wastewater [LAC 33:III.2153]	EXEMPT. The wastewater stream is subject to HON wastewater provisions and exempt from this section. [LAC 33:III.2153.G.6]
	Standards of Performance for VOC Emissions from SOCMI Wastewater [40 CFR 60 Subpart YYY (Proposed)]	DOES NOT APPLY. Stream does not contain at least 50 ppmw VOC with an average annual flow rate of 0.02 L/min or at least 10,000 ppmw at any flow rate.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Wastewater Streams]	DOES NOT APPLY. Stream contains <5 ppmw total OHAPs. [LAC 33:III.2153.G.6]
K112 Wastestream T-120 Bottoms	Limiting Volatile Organic Compound Emissions from Industrial Wastewater [LAC 33:III.2153]	EXEMPT. The wastewater stream is subject to HON wastewater provisions and exempt from this section. [LAC 33:III.2153.G.6]
	Standards of Performance for VOC Emissions from SOCMI Wastewater [40 CFR 60 Subpart YYY (Proposed)]	DOES NOT APPLY. Proposed requirement encompassed by existing HON requirements.
	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (HON) [40 CFR 63 Subpart G, Wastewater Streams]	EXEMPT FROM CONTROL. Group 2 wastewater stream. No additional control required. Recordkeeping requirements apply.

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The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(ii)]

40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated March 31, 2004, along with supplemental information dated March 20, 2007, April 27, 2007, May 2, 2007, May 3, 2007, May 4, 2007, May 11, 2007, May 18, 2007, June 22, 2007, June 27, 2007, July 12, 2007, July 18, 2007, July 30, 2007, August 2, 2007, August 9, 2007, August 29, 2007, and September 20, 2007 was also received.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040003

Permit Number: 2643-Y1

Air - Title V Regular Permit Renewal

EQT0352 TDI11 - HCl Storage and Loading Scrubber

- 92 [40 CFR 63.9035(b)(1)]
 Flow rate recordkeeping by electronic or hard copy continuously. Record the scrubber inlet liquid or recirculating liquid flow rate. For each hour that there is valid data from at least four equally spaced periods, calculate the hourly average using all of the valid data, as specified in 40 CFR 63.9025(a). Subpart NNNNN. [40 CFR 63.9035(b)(1)]
- 93 [40 CFR 63.9035(b)(2)]
 pH: Conductivity in lieu of pH recordkeeping by electronic or hard copy continuously per EPA Region 6 Alternative Monitoring Method received by BASF 4/24/07. Record the scrubber conductivity every 15 minutes. For each hour that there is valid data from at least four equally spaced periods, calculate the hourly average using all of the valid data, as specified in 40 CFR 63.9025(a). Subpart NNNNN. [40 CFR 63.9035(b)(2)]
- 94 [40 CFR 63.9040(a)]
 Demonstrate continuous compliance with 40 CFR 63 Subpart NNNNN, Table 1 and Table 2, as applicable, according to 40 CFR 63 Subpart NNNNN, Table 4 and Table 5. Subpart NNNNN. [40 CFR 63.9040(a)]

EQT0353 TDI12 - TDA Water Scrubber Vent T-150

- 95 [40 CFR 63.113(g)]
 Organic HAP < 50 ppmv. Subpart G. [40 CFR 63.113(g)]
 Which Months: All Year Statistical Basis: None specified
 Permittee shall comply the monitoring, recordkeeping, and reporting requirements associated with a Group 2 process vent.
- 96 [40 CFR 63.113]
 Recalculate the T-RE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- 97 [40 CFR 63.115(e)]
 Submit information: Due with the Notification of Compliance Status specified in 40 CFR 63.1S2. Submit the organic HAP or TOC concentration measurement using the methods and procedures specified in 40 CFR 63.115(a) and (c). Subpart G. [40 CFR 63.117(d)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the information specified in 40 CFR 63.118(e)(1) through (e)(3). Subpart G. [40 CFR 63.118(e)]
- 98 [40 CFR 63.117(d)]
 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent to become a Group 1 process vent. Include the information specified in 40 CFR 63.118(g)(1) through (g)(3). Subpart G. [40 CFR 63.118(g)]
- 99 [40 CFR 63.118(e)]
 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with an organic HAP concentration less than 50 ppmv to become a Group 2 process vent with an organic HAP concentration of 50 ppmv or greater and a T-RE index value less than or equal to 4.0. Include the information specified in 40 CFR 63.118(j)(1) through (j)(3). Subpart G. [40 CFR 63.118(j)]
- 100 [40 CFR 63.118(g)]
 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 101 [40 CFR 63.118(j)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source receives/emits a Class II TAP (toluenediamine). Control efficiency is >98% and is determined as MACT.
- 102 [LAC 33:III.2115.K]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source receives/emits a Class II TAP (toluenediamine). Control efficiency is >98% and is determined as MACT.
- 103 [LAC 33:III.5109.A]

EQT0354 TDI13 - T-510 Destruct Tower Caustic Scrubber

SPECIFIC REQUIREMENTS

AID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040003
 Permit Number: 2643-Y1
 Air - Title V Regular Permit Renewal

EQT0351 TDI10 - TK-340 Offspec Water Tank

77 [LAC 33:III:5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0352 TDI11 - HCl Storage and Loading Scrubber

- 78 [40 CFR 63.8995(b)] Permittee shall comply with the monitoring, recordkeeping, and reporting requirements of 40 CFR 63 Subpart NNNNN on or before April 17, 2006. [40 CFR 63.8995(b)]
- 79 [40 CFR 63.9000(a)] Hydrochloric acid $\geq 99\%$ reduction or ≤ 120 ppmv, except as noted in 40 CFR 63.9000(c) and (d). Subpart NNNNN. [40 CFR 63.9000(a)]
- 80 [40 CFR 63.9000(b)] Which Months: All Year Statistical Basis: None specified
- Flow rate: The HCl Storage and Loading Scrubber shall operate with a minimum hourly average recirculating liquid flow rate of ≥ 140 gallons/min, and minimum hourly average make-up water flow rate shall remain 7 gallons/min except as noted n 40 CFR 63.9000(c). Refer to USEPA Alternative Monitoring letter dated 4/24/07. Subpart NNNNN. [40 CFR 63.9000(b)]
- 81 [40 CFR 63.9000(b)] Maintain the operating parameter(s) within the operating limits established according to the monitoring plan established under 40 CFR 63.8(f), except as noted in 40 CFR 63.9000(c). Subpart NNNNN. [40 CFR 63.9000(b)]
- 82 [40 CFR 63.9000(b)] pH: Effluent stream conductivity of $\leq 690,000$ mhos (corrected to 25 degrees C) corresponding to $<= 9.98\%$ HCl is the Approved Monitoring Method approved by EPA Region 6 and received by BASF 4/24/06. Subpart NNNNN. [40 CFR 63.9000(b)]
- 83 [40 CFR 63.9015(a)] Conduct all applicable performance tests according to the procedures in 40 CFR 63.9020 on the earlier of the title V operating permit renewal or within 5 years of issuance of the title V permit. Subpart NNNNN. [40 CFR 63.9015(a)]
- 84 [40 CFR 63.9015(b)] Submit performance test results: Due within 60 days after the completion of subsequent performance tests. Also verify that the operating limits have not changed or provide documentation of revised operating limits established as specified in 40 CFR 63 Subpart NNNNN, Table 2. Include all applicable information required in 40 CFR 63.9050. Subpart NNNNN. [40 CFR 63.9015(b)]
- 85 [40 CFR 63.9020(a)] Conduct each applicable performance test in 40 CFR 63 Subpart NNNNN, Table 3 as directed in 40 CFR 63.9020(a)(1) through (4), except as noted in 40 CFR 63.9020(b) and (c). Subpart NNNNN. [40 CFR 63.9020(a)]
- 86 [40 CFR 63.9020(b)] If complying with a percent reduction emission limitation, determine the percent reduction in accordance with 40 CFR 63.9020(b)(1) and (b)(2). Subpart NNNNN. [40 CFR 63.9020(b)]
- 87 [40 CFR 63.9020(e)(1)ii] Scrubber will be operated to ensure removal efficiency of Hydrochloric acid ≥ 99 percent. [40 CFR 63.9020(e)(1)ii]
- 88 [40 CFR 63.9025(a)] Which Months: All Year Statistical Basis: Hourly average Flow rate monitored by CMS continuously. Monitor the scrubber inlet liquid or recirculating liquid flow rate. Subpart NNNNN. [40 CFR 63.9025(a)]
- 89 [40 CFR 63.9025(a)] Which Months: All Year Statistical Basis: Daily average
- pH: Conductivity monitored by CMS continuously. Monitor the scrubber effluent conductivity in lieu of pH per EPA Region 6 Approved Monitoring Method received by BASF 4/24/06. [40 CFR 63.9025(a)]
- 90 [40 CFR 63.9025(b)] Submit a monitoring plan to DEQ that meets the requirements in 40 CFR 63.9025(a) and (b)(1) through (b)(3), in accordance with 40 CFR 63.8(f). Conduct monitoring in accordance with the plan submitted, unless comments received from DEQ require an alternate monitoring scheme. Subpart NNNNN. [40 CFR 63.9025(b)]
- 91 [40 CFR 63.9030(b)] Establish the site-specific operating limit(s) in 40 CFR 63 Subpart NNNNN, Table 2, as applicable, according to the requirements in 40 CFR 63.9020 and 40 CFR 63 Subpart NNNNN, Table 3. Subpart NNNNN. [40 CFR 63.9030(b)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040003
 Permit Number: 2643-V1
 Air - Title V Regular Permit Renewal

EQT0347 TDI06 - TDI Plant Cooling Tower No. 3

65 [40 CFR 63.104]
 Permittee shall monitor the cooling water inlet and outlet streams for VOC and/or TAP chemicals and will repair leaks as required in 40 CFR 63 Subpart F.

66 [LAC 33:III.5|09.A]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class III TAP (Chlorine) only. MACT is not required.

EQT0348 TDI07 - TDI Carbon Adsorber

67 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.130(l)(1) through (f)(3). Subpart G. [40 CFR 63.130(f)]

68 [40 CFR 63.130(f)]
 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

69 [LAC 33:III.2|15.K]
 Equipment/operational data recordkeeping by electronic or hard copy daily. Keep records of the tests to determine carbon canister life, as well as the dates of canister replacement, on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

70 [LAC 33:III.501.C.6]
 Permittee shall maintain and operate carbon adsorber to control emissions of VOC and TAPs in accordance with engineering design analyses and manufacturer's recommendations. Drum(s) shall be replaced as necessary, in accordance with their design and life expectancy to maintain control efficiencies. Based on engineering calculations by BASF, the TDI carbon drums will be changed out every 180 days. A record of the dates of drum replacement shall be kept on site and available for review by the Office of Environmental Compliance, Surveillance Division (state only).

71 [LAC 33:III.501.C.6]
 Replace canisters as necessary to maintain a control efficiency of 95% minimum.

72 [LAC 33:III.501.C.6]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

73 [LAC 33:III.5|09.A]
 Source receives/emits a Class III TAP (toluene) only. MACT is not required.

EQT0349 TDI08 - TK-704 Toluene Tank

74 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits a Class III TAP (toluene) only. MACT is not required.

EQT0351 TDI10 - TK-340 Offspec Water Tank

75 [40 CFR 63.132(a)(1)]
 Permittee shall comply with the monitoring, recordkeeping, and reporting requirements specified in 40 CFR 63.133(a)(1), 63.146(b)(2) and (b)(5), and 63.147(b)(1). [40 CFR 63.132(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040003
 Permit Number: 2643-V1
 Air - Title V Regular Permit Renewal

EQT0346 TDI05 - TDI Plant Cooling Tower No. 2

- 55 [40 CFR 63.104(c)] Heat exchange systems: Prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling water. Require monitoring of one or more surrogate indicators or monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.104(c)(1)(i) and (ii). Monitor no less frequently than monthly for the first six months and quarterly thereafter to detect leaks. If a substantial leak is identified by methods other than those described in the monitoring plan and method(s) specified in the plan could not detect the leak, revise the plan and document the basis for the changes. Complete revisions to the plan no later than 180 days after discovery of the leak. Subpart F. [40 CFR 63.104(c)]
- 56 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 57 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy continuously. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 58 [40 CFR 63.104] Permittee shall monitor the cooling water inlet and outlet streams for VOC and/or TAP chemicals and will repair leaks as required in 40 CFR 63.104.
- 59 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class III TAP (Chlorine) only. MACT is not required.

EQT0347 TDI06 - TDI Plant Cooling Tower No. 3

- 60 [40 CFR 63.104(b)] Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more specified HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Subpart F. [40 CFR 63.104(b)]
- 61 [40 CFR 63.104(c)(3)] Which Months: All Year Statistical Basis: None specified Heat exchange systems: Maintain, at all times, the monitoring plan currently in use. Maintain on-site, or accessible from a central location by computer or other means that provide access within 2 hours after a request. If a monitoring plan is superseded, retain the most recent superseded plan at least until 5 years from the date of its creation. Retain the superseded plan on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after its creation. Subpart F. [40 CFR 63.104(c)(3)]
- 62 [40 CFR 63.104(c)] Heat exchange systems: Prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling water. Require monitoring of one or more surrogate indicators or monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.104(c)(1)(i) and (ii). Monitor no less frequently than monthly for the first six months and quarterly thereafter to detect leaks. If a substantial leak is identified by methods other than those described in the monitoring plan and method(s) specified in the plan could not detect the leak, revise the plan and document the basis for the changes. Complete revisions to the plan no later than 180 days after discovery of the leak. Subpart F. [40 CFR 63.104(c)]
- 63 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 64 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy continuously. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040003
 Permit Number: 2643-V1
 Air - Title V Regular Permit Renewal

EQT0345 TDI Plant Cooling Tower No. 1

46 [40 CFR 63.104(b)]

Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more speciated HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Subpart F.

[40 CFR 63.104(b)]

Which Months: All Year Statistical Basis: None specified

Heat exchange systems: Maintain, at all times, the monitoring plan currently in use. Maintain on-site, or accessible from a central location by computer or other means that provide access within 2 hours after a request. If a monitoring plan is superseded, retain the most recent superseded plan at least until 5 years from the date of its creation. Retain the superseded plan on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after its creation. Subpart F. [40 CFR 63.104(c)(3)]

Heat exchange systems: Prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling water. Require monitoring of one or more surrogate indicators or monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.104(c)(1)(i) and (ii). Monitor no less frequently than monthly for the first six months and quarterly thereafter to detect leaks. If a substantial leak is identified by methods other than those described in the monitoring plan and method(s) specified in the plan could not detect the leak, revise the plan and document the basis for the changes. Complete revisions to the plan no later than 180 days after discovery of the leak. Subpart F. [40 CFR 63.104(c)]

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy continuously. Retain the records identified in 40 CFR 63.104(f)(1) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

Permittee shall monitor the cooling water inlet and outlet streams for VOC and/or TAP chemicals and will repair leaks as required in 40 CFR 63.104(f).

Subpart F.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

Source emits Class III TAP (Chlorine) only. MACT is not required.

EQT0346 TDI Plant Cooling Tower No. 2

53 [40 CFR 63.104(b)]

Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more speciated HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Subpart F.

[40 CFR 63.104(b)]

Which Months: All Year Statistical Basis: None specified

Heat exchange systems: Maintain, at all times, the monitoring plan currently in use. Maintain on-site, or accessible from a central location by computer or other means that provide access within 2 hours after a request. If a monitoring plan is superseded, retain the most recent superseded plan at least until 5 years from the date of its creation. Retain the superseded plan on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after its creation. Subpart F. [40 CFR 63.104(c)(3)]

SPECIFIC REQUIREMENTS**AI ID: 2049 - BASF Corp - Geismar Site****Activity Number: PER20040003****Permit Number: 2643-V1****Air - Title V Regular Permit Renewal****EQT0343 TDI02 - TDI Flare**

- 33 [40 CFR 63.148(j)] Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]
Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- 34 [LAC 33:III.11.05] Which Month: All Year Statistical Basis: None specified
Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 35 [LAC 33:III.11.05] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 36 [LAC 33:III.13.1.C] Which Month: All Year Statistical Basis: Six-minute average
Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with the requirements of 40 CFR 63.11 Subpart A constitutes MACT.

EQT0344 TDI03 - TDA Vicinal's Loading Carbon Adsorber

- 37 [LAC 33:III.15.3] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.130(f)(1) through (f)(3). Subpart G. [40 CFR 63.130(f)]
Permittee shall comply with the monitoring, recordkeeping, and reporting requirements specified in 40 CFR 63.130(f). [40 CFR 63.130(f)]
Control VOC emissions using activated carbon adsorption units (at 98% efficiency) that have been approved by the Environmental Technology Division, Engineering Services (state only).
Equipment/operational data recordkeeping by electronic or hard copy daily. Keep records of the tests to determine carbon canister life, as well as the dates of canister replacement, on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
Permittee shall maintain and operate carbon adsorber to control emissions of VOC and TAPs in accordance with engineering design analyses and manufacturer's recommendations. Drum(s) shall be replaced as necessary, in accordance with their design and life expectancy to maintain control efficiencies. Based on engineering calculations by BASF, the TDA Vicinal's carbon drums will be changed out every 90 days. A record of the dates of drum replacement shall be kept on site and available for review by the Office of Environmental Compliance, Surveillance Division (state only).
Replace canisters as necessary to maintain a control efficiency of 95% minimum.
- 38 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Source receives/emits a Class II TAP (toluenediamine (TDA)) that is less than the MER (facility wide). No further control is required.

EQT0345 TDI04 - TDI Plant Cooling Tower No. 1

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040003
 Permit Number: 2643-V1
 Air - Title V Regular Permit Renewal

EQT0343 TDI02 - TDI Flare

- 19 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 20 [40 CFR 63.118(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 21 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
- 22 [40 CFR 63.127(d)(2)(ii)] Vent system: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.127(d)(2)(ii)]
- 23 [40 CFR 63.130(f)] Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.130(f)(1) through (f)(3). Subpart G. [40 CFR 63.130(f)]
- 24 [40 CFR 63.130] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.130(a) through (d). Subpart G.
- 25 [40 CFR 63.148(b)(1)(i)] Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
- 26 [40 CFR 63.148(b)(1)(ii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
- 27 [40 CFR 63.148(b)(2)(i)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(i)]
- 28 [40 CFR 63.148(b)(2)(ii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(ii)]
- 29 [40 CFR 63.148(b)(2)(iii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(2)(iii)]
- 30 [40 CFR 63.148(d)] Which Months: All Year Statistical Basis: None specified Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- 31 [40 CFR 63.148(f)(2)] Vapor collection system or closed vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.148(f)(2)]
- 32 [40 CFR 63.148(f)(2)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (bypass lines): Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. Subpart G. [40 CFR 63.148(f)(2)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040003
 Permit Number: 2643-V1
 Air - Title V Regular Permit Renewal

EQT0342 TDI01 - Toluene Tank TK-703

- 1 [40 CFR 63.123(a)]
- 2 [LAC 33.III.5109.A]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Control emissions of toxic air pollutants (TAPs) to a degree that constitutes Maximum Achievable Control Technology (MACT). Class III TAPs only. MACT is not required.

EQT0343 TDI02 - TDI Flare

- 3 [40 CFR 63.11(b)(1)]
- 4 [40 CFR 63.11(b)(3)]
- 5 [40 CFR 63.11(b)(4)]
- 6 [40 CFR 63.11(b)(5)]
- 7 [40 CFR 63.11(b)(5)]
- 8 [40 CFR 63.11(b)(6)(i)(B)]
- 9 [40 CFR 63.11(b)(6)(ii)]
- 10 [40 CFR 63.11(b)(6)(ii)]
- 11 [40 CFR 63.11(b)(6)(ii)]
- 12 [40 CFR 63.11(b)(7)(i)]
- 13 [40 CFR 63.113(a)(1)(i)]
- 14 [40 CFR 63.114(a)(2)]
- 15 [40 CFR 63.116(a)(1)]
- 16 [40 CFR 63.116(a)(2)]
- 17 [40 CFR 63.116(a)(3)]
- 18 [40 CFR 63.116(c)]

Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
 Which Months: All Year Statistical Basis: None specified
 Determine the actual exit velocity using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(6)(i)(B)]
 Heat content \geq 200 BTU/scf (7.45 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(iii). Subpart A. [40 CFR 63.11(b)(6)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Heat content \geq 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(i)]
 Which Months: All Year Statistical Basis: None specified
 Heat content: Permittee shall ensure destruction of emissions to the TDI flare by maintaining the heat content of the flare gases above 300 BTU/scf when the flare is steam or air assisted, and above 200 BTU/scf when the flare is non-assisted. [40 CFR 63.11(b)(6)(ii)]
 Exit Velocity $<$ 60 ft/sec (18.3 m/sec), as determined using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(i)]
 Which Months: All Year Statistical Basis: None specified
 Comply with the provisions of 40 CFR 63.11(b). Subpart G. [40 CFR 63.113(a)(1)(i)]
 Presence of a flame monitored by the regulation's specified method(s) continuously. Subpart G. [40 CFR 63.114(a)(2)]
 Which Months: All Year Statistical Basis: None specified
 Conduct a visible emission test using the techniques specified in 40 CFR 63.11(b)(4). Subpart G. [40 CFR 63.116(a)(1)]
 Determine the net heating value of the gas being combusted using the techniques specified in 40 CFR 63.11(b)(6). Subpart G. [40 CFR 63.116(a)(2)]
 Determine the exit velocity using the techniques specified in either 40 CFR 63.11(b)(7)(i) or 63.11(b)(8), as appropriate. Subpart G. [40 CFR 63.116(a)(3)]
 Conduct a performance test using the procedures in 40 CFR 63.116(c)(1) through (c)(4). Subpart G. [40 CFR 63.116(c)]

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040003

Permit Number: 2643-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001	Benzene			0.001
	Carbon tetrachloride			0.311
	Chlorine			0.144
	Chlorobenzene			0.004
	Chloroform			0.008
	Formaldehyde			0.002
	Hydrochloric acid			3.93
	Methanol			0.68
	Methylene diphenyl diisocyanate			0.002
	Phosgene			0.012
	Toluene			2.458
	Toluene-2,4-diisocyanate			0.02
	n-Hexane			0.080
	n-butyl alcohol			0.051
	ortho-Toluidine			0.311

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040003

Permit Number: 2643-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0354 TDI13	Phosgene	0.002	0.002	0.01
	Toluene	0.002	0.002	0.01
EQT 0355 TDI15	2,4-Toluene diamine	0.001	0.070	0.004
	Ammonia	0.030	3.620	0.120
	Hydrochloric acid	0	0	0
	Toluene	0	0	0
	Toluene-2,6-Diisocyanate	0	0	0
	ortho-Toluidine	0.001	0.070	0.004
EQT 0356 TDI16	Methylene diphenyl diisocyanate	< 0.001	< 0.001	< 0.001
	Toluene-2,6-Diisocyanate	0.003	0.008	0.008
EQT 0357 TDI17	2,4-Dinitrotoluene	0.007	0.160	0.032
	2,6-Dinitrotoluene	0.002	0.04	0.008
EQT 0358 TDI18	Hydrochloric acid	< 0.001	< 0.001	0.002
	Toluene-2,6-Diisocyanate	< 0.001	< 0.001	< 0.001
EQT 0359 TDI19	Carbon tetrachloride	< 0.001	< 0.001	< 0.001
	Chloroform	< 0.001	< 0.001	< 0.001
	Methanol	0.054	0.054	0.23
	Toluene	0.001	0.001	0.003
	n-butyl alcohol	< 0.001	< 0.001	< 0.001
	ortho-Toluidine	< 0.001	< 0.001	< 0.001
FUG 0018 TDI14	2,4-Dinitrotoluene	0.007	0.007	0.031
	2,4-Toluene diamine	0.251	0.251	1.100
	2,6-Dinitrotoluene	0.002	0.002	0.007
	Ammonia	0.015	0.015	0.066
	Chlorine	< 0.001	< 0.001	< 0.001
	Hydrochloric acid	0.002	0.002	0.008
	Phosgene	< 0.001	< 0.001	0.002
	Toluene	0.049	0.049	0.215
	Toluene-2,6-Diisocyanate	< 0.001	< 0.001	< 0.001
	ortho-Toluidine	0.004	0.004	0.018
UNF 0001	2,4-Dinitrotoluene			0.063
	2,4-Toluene diamine			1.132
	2,6-Dinitrotoluene			0.015
	Ammonia			4.40

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040003

Permit Number: 2643-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0342 TDI01	Methanol	0	0	0
	Toluene	0.075	6.93	0.33
EQT 0343 TDI02	2,4-Toluene diamine	< 0.001	< 0.001	< 0.001
	Ammonia	0.9	1.79	3.92
	Benzene	< 0.001	0.001	0.001
	Benzyl chloride	0	0	0
	Carbon tetrachloride	0.071	0.088	0.31
	Chloroform	0.002	0.003	0.007
	Formaldehyde	< 0.001	< 0.001	0.002
	Hydrochloric acid	0.68	1.63	3
	Methanol	0.1	1.23	0.45
	Toluene	0.29	0.57	1.27
	Toluene-2,4-diisocyanate	0	0	0
	Toluene-2,6-Diisocyanate	0	0	0
EQT 0344 TDI03	n-Hexane	0.017	0.017	0.08
	n-butyl alcohol	0.011	0.11	0.05
EQT 0345 TDI04	ortho-Toluidine	0.059	0.59	0.26
	2,4-Toluene diamine	0.012	0.035	0.026
EQT 0346 TDI05	Chlorine	0.017	0.017	0.075
EQT 0347 TDI06	Chlorine	0.006	0.006	0.025
EQT 0348 TDI07	Chlorine	0.01	0.01	0.033
	Methylene diphenyl diisocyanate	< 0.001	< 0.001	< 0.001
EQT 0349 TDI08	Toluene-2,6-Diisocyanate	0.003	0.008	0.008
	Toluene	0.094	6.930	0.411
EQT 0351 TDI10	ortho-Toluidine	< 0.01	< 0.01	< 0.01
EQT 0352 TDI11	Chlorobenzene	0.001	0.575	0.004
	Hydrochloric acid	0.207	0.467	0.905
	Toluene	0.050	2.280	0.219
EQT 0353 TDI12	2,4-Toluene diamine	< 0.001	0.022	0.001
	Ammonia	0.066	6.620	0.290
	Methanol	0	0	0
	ortho-Toluidine	0.004	0.420	0.018
EQT 0354 TDI13	Chlorine	0.002	0.002	0.01
	Hydrochloric acid	0.002	0.002	0.01

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040003

Permit Number: 2643-V1

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
TDI Plant															
EQT 0342 TD101															
EQT 0343 TD102	26.48	112.4	115.97	1.5	1.82	6.56	0.17	0.2	0.73	0.01	0.03	0.08	6.93	0.33	
EQT 0344 TD103															
EQT 0345 TD104							1.19	1.49	5.22				0.01	0.04	0.03
EQT 0346 TD105							0.5	0.63	2.19				0.05	0.06	0.22
EQT 0347 TD106							1.15	1.44	5.04				0.02	0.03	0.10
EQT 0348 TD107													<0.01	0.01	0.01
EQT 0349 TD108													0.09	6.93	0.41
EQT 0350 TD109													<0.01	<0.01	<0.01
EQT 0351 TD110													<0.01	<0.01	<0.01
EQT 0352 TD111													0.05	2.86	0.22
EQT 0353 TD112													0.01	0.88	0.04
EQT 0354 TD113													<0.01	<0.01	0.02
EQT 0355 TD115													<0.01	0.14	0.01
EQT 0356 TD116													<0.01	0.01	0.01
EQT 0357 TD117													0.01	0.20	0.04
EQT 0358 TD118													<0.01	<0.01	<0.01
EQT 0359 TD119													0.05	0.05	0.24
FUG 0078 TD114													0.32	0.32	1.40

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

INVENTORIES

All ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040003
 Permit Number: 2643-V1
 Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT0561	TDI12(f) - Residue Recovery Distillation/Vent/T-440/VP442	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0562	TDI13(a) - TDI Reaction Main Chamber Air	Controlled by	EQT0354	TDI13 - T-510 Destruct Tower Caustic Scrubber
EQT0567	TDI13(f) - Flexiduct System	Controlled by	EQT0354	TDI13 - T-510 Destruct Tower Caustic Scrubber
EQT0568	TDI02(j)/TDI19(c) - D-415 Waste TDI Residue Loading Tank	Controlled by	EQT0359	TDI19 - Waste Product Loading Carbon Drum
EQT0568	TDI02(j)/TDI19(c) - D-415 Waste TDI Residue Loading Tank	Controlled by	EQT0343	TDI02 - TDI Flare
EQT0570	TDI03(a) - TDA Vicinalis Loading Transfer Rack	Controlled by	EQT0344	TDI03 - TDA Vicinalis Loading Carbon Adsorber
EQT0571	TDI15(a) - R-420 Reactor Vent	Controlled by	EQT0355	TDI15 - Residue Constituent Recovery Vent Scrubber T-435
EQT0572	TDI15(b) - T-430 Water Recovery Column Vent	Controlled by	EQT0355	TDI15 - Residue Constituent Recovery Vent Scrubber T-435
FUG0018	TDI16 - TDI Plant Fugitive Emissions	Controlled by	EQT0343	TDI02 - TDI Flare

Subject Item Groups:

ID	Group Type	Group Description
UNF0001	Unit or Facility Wide	-

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
0510	Industrial Inorganic Acids N.E.C. (Rated Capacity)	387	MM Lb/Yr
0570	Synthetic Resins Manufacture N.E.C. (Rated Capacity)	440	MM Lb/Yr

SIC Codes:

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040003
Permit Number: 2643-V1
Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT0505	TDI07(c)/TDI16(c) - TK-701C - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0506	TDI07(d)/TDI16(d) - TK-701D - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0506	TDI07(d)/TDI16(d) - TK-701D - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0507	TDI07(e)/TDI16(e) - TK-701E - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0507	TDI07(e)/TDI16(e) - TK-701E - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0508	TDI07(f)/TDI16(f) - TK-701F - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0508	TDI07(f)/TDI16(f) - TK-701F - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0509	TDI07(g)/TDI16(g) - TK-701G - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0509	TDI07(g)/TDI16(g) - TK-701G - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0510	TDI07(h)/TDI16(h) - TK-701H - TDI Tank	Controlled by	EQT0344	TDI03 - TDA Vicinal's Loading Carbon Adsorber
EQT0510	TDI07(h)/TDI16(h) - TK-701H - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0511	TDI07(i)/TDI16(i) - TK-701I - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0511	TDI07(i)/TDI16(i) - TK-701I - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0512	TDI07(j)/TDI16(j) - TK-701J - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0512	TDI07(j)/TDI16(j) - TK-701J - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0513	TDI07(k)/TDI16(k) - TK-727 - Overflow Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0513	TDI07(k)/TDI16(k) - TK-727 - Overflow Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0514	TDI07(l)/TDI16(l) - TDI Rail Loading	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0514	TDI07(l)/TDI16(l) - TDI Rail Loading	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0515	TDI07(m)/TDI16(m) - TDI Truck Loading	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0515	TDI07(m)/TDI16(m) - TDI Truck Loading	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0516	TDI11(a) - TK-702A - HCl Tank	Controlled by	EQT0352	TDI11 - HCl Storage and Loading Scrubber
EQT0517	TDI11(b) - TK-702B - HCl Tank	Controlled by	EQT0352	TDI11 - HCl Storage and Loading Scrubber
EQT0518	TDI11(c) - TK-702C - HCl Tank	Controlled by	EQT0352	TDI11 - HCl Storage and Loading Scrubber
EQT0519	TDI11(d) - TK-702D - HCl Tank	Controlled by	EQT0352	TDI11 - HCl Storage and Loading Scrubber
EQT0520	TDI11(e) - HCl Rail Loading	Controlled by	EQT0352	TDI11 - HCl Storage and Loading Scrubber
EQT0521	TDI11(f) - HCl Truck Loading	Controlled by	EQT0352	TDI11 - HCl Storage and Loading Scrubber
EQT0520	TDI02(g) - T-110/S-114 Toluidine Drum/T-120	Controlled by	EQT0343	TDI02 - TDI Flare
EQT0521	TDI02(g) - T-110/S-114 Toluidine Drum/T-120	Controlled by	EQT0343	TDI02 - TDI Flare
EQT0522	TDI12(a) - Jet System Vent/D115/T130/J143/J144	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0522	TDI12(b) - TK-160/VB TDA Storage	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0524	TDI02(h) - T-520 Caustic Scrubber Tower Vent	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0555	TDI02(i) - T-504 Toluene Drying	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0556	TDI12(a) - Jet System Vent/D115/T130/J143/J144	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0557	TDI12(b) - TK-311A/B TDA Storage	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0558	TDI12(c) - TK-311A/B TDA Vicinal's Storage	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0559	TDI12(d) - D-642A/B TDA Vicinal's Storage	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150
EQT0560	TDI12(e) - D-136 TDA Tar Drum	Controlled by	EQT0353	TDI12 - TDA Water Scrubber Vent T-150

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040003
Permit Number: 2643-V1
Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT0353	TDI12 - TDA Water Scrubber Vent T-150	Controls emissions from	EQT0561	TDI12(f) - Residue Recovery Distillation/Vent/T-440/NP442
EQT0353	TDI12 - TDA Water Scrubber Vent T-150	Controls emissions from	EQT0556	TDI12(a) - Jet System Vent/D115/T-130/J143/J144
EQT0353	TDI12 - TDA Water Scrubber Vent T-150	Controls emissions from	EQT0560	TDI12(e) - D-136 TDA Tar Drum
EQT0353	TDI12 - TDA Water Scrubber Vent T-150	Controls emissions from	EQT0559	TDI12(d) - D-642A/B TDA Vicinalis Storage
EQT0353	TDI12 - TDA Water Scrubber Vent T-150	Controls emissions from	EQT0557	TDI12(b) - TK-160A/B TDA Storage
EQT0353	TDI12 - TDA Water Scrubber Vent T-150	Controls emissions from	EQT0558	TDI12(c) - TK-311A/B TDA Vicinalis Storage
EQT0355	TDI15 - Residue Constituent Recovery Vent Scrubber T-435	Controls emissions from	EQT0571	TDI15(a) - R-420 Reactor Vent
EQT0355	TDI15 - Residue Constituent Recovery Vent Scrubber T-435	Controls emissions from	EQT0572	TDI15(b) - T-430 Water Recovery Column Vent
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0503	TDI07(a)/TDI16(a) - TK-701A - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0504	TDI07(b)/TDI16(b) - TK-701B - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0509	TDI07(g)/TDI16(g) - TK-701G - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0508	TDI07(y)/TDI16(f) - TK-701F - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0507	TDI07(e)/TDI16(e) - TK-701E - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0506	TDI07(d)/TDI16(d) - TK-701D - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0505	TDI07(c)/TDI16(c) - TK-701C - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0510	TDI07(h)/TDI16(h) - TK-701H - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0515	TDI07(m)/TDI16(m) - TDI Truck Loading
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0514	TDI07(y)/TDI16(l) - TDI Rail Loading
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0513	TDI07(k)/TDI16(k) - TK-727 - Overflow Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0512	TDI07(j)/TDI16(j) - TK-701J - TDI Tank
EQT0356	TDI16 - TDI Carbon Adsorber	Controls emissions from	EQT0511	TDI07(l)/TDI16(l) - TK-701l - TDI Tank
EQT0359	TDI19 - Waste Product Loading Carbon Drum	Controls emissions from	EQT0497	TDI02(d)/TDI19(a) - D-721A-Wet Toluene Tank
EQT0359	TDI19 - Waste Product Loading Carbon Drum	Controls emissions from	EQT0498	TDI02(e)/TDI19(b) - D-721B-Dry Toluene Solvent Tank
EQT0359	TDI19 - Waste Product Loading Carbon Drum	Controls emissions from	EQT0568	TDI02(j)/TDI19(c) - D-415 Waste TDI Residue Loading Tank
EQT0359	TDI19 - Waste Product Loading Carbon Drum	Controls emissions from	EQT0552	TDI02(g)/TDI19(d) - D-138 TDA Tar Storage
EQT0497	TDI02(d)/TDI19(a) - D-721A-Wet Toluene Tank	Controlled by	EQT0359	TDI19 - Waste Product Loading Carbon Drum
EQT0497	TDI02(d)/TDI19(a) - D-721A-Wet Toluene Tank	Controlled by	EQT0343	TDI02 - TDI Flare
EQT0498	TDI02(e)/TDI19(b) - D-721B-Dry Toluene Solvent Tank	Controlled by	EQT0359	TDI19 - Waste Product Loading Carbon Drum
EQT0498	TDI02(e)/TDI19(b) - D-721B-Dry Toluene Solvent Tank	Controlled by	EQT0343	TDI02 - TDI Flare
EQT0499	TDI02(f) - TDA Reactor Processes	Controlled by	EQT0343	TDI02 - TDI Flare
EQT0501	TDI02(h) - TDI Reactor Processes	Controlled by	EQT0343	TDI02 - TDI Flare
EQT0502	TDI02(i) - TDI Distillation Processes	Controlled by	EQT0343	TDI02 - TDI Flare
EQT0503	TDI07(a)/TDI16(a) - TK-701A - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0503	TDI07(a)/TDI16(a) - TK-701A - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0504	TDI07(b)/TDI16(b) - TK-701B - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber
EQT0504	TDI07(b)/TDI16(b) - TK-701B - TDI Tank	Controlled by	EQT0356	TDI16 - TDI Carbon Adsorber
EQT0505	TDI07(c)/TDI16(c) - TK-701C - TDI Tank	Controlled by	EQT0348	TDI07 - TDI Carbon Adsorber

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040003
 Permit Number: 2643-V1
 Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
TDI Plant							
EQT0351	TDI10 - TK340 Offspec Water Tank			.33		16	77
EQT0352	TDI11 - HCl Storage and Loading Scrubber	6	375	1.17		15	130
EQT0353	TDI12 - TDA Water Scrubber Vent T-150	11.12	131	.5		45	102
EQT0354	TDI13 - Destruct Tower Caustic Scrubber T-510	28.3	12800	3		120	100
EQT0355	TDI15 - Residue Constituent Recovery Vent Scrubber T-435	12.05	255	.67		20	70
EQT0356	TDI16 - TDI Carbon Adsorber			.25		20	100
EQT0357	TDI17 - DNT Drum D-705					10	77
FUG0018	TDI14 - TDI Plant Fugitive Emissions						77

Relationships:

ID	Description	Relationship	ID	Description
EQT0343	TDI02 - TDI Flare	Controls emissions from	EQT0497	TDI02(d)/TDI19(a) - D-721A Wet Toluene Tank
EQT0343	TDI02 - TDI Flare	Controls emissions from	EQT0498	TDI02(e)/TDI19(b) - D-721B-Dry Toluene Solvent Tank
EQT0343	TDI02 - TDI Flare	Controls emissions from	EQT0499	TDI02(f) - TDI Reactor Processes
EQT0343	TDI02 - TDI Flare	Controls emissions from	EQT0571	TDI15(a) - R-420 Reactor Vent
EQT0343	TDI02 - TDI Flare	Controls emissions from	EQT0590	TDI02(g) - TDI Distillation Processes
EQT0343	TDI02 - TDI Flare	Controls emissions from	EQT0592	TDI02(i) - TDI Distillation Processes
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0593	TDI07(a)/TDI16(a) - TK-701A - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0594	TDI07(b)/TDI16(b) - TK-701B - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0595	TDI07(c)/TDI16(c) - TK-701C - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0596	TDI07(d)/TDI16(d) - TK-701D - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0597	TDI07(e)/TDI16(e) - TK-701E - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0598	TDI07(f)/TDI16(f) - TK-701F - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0599	TDI07(g)/TDI16(g) - TK-701G - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0610	TDI07(h)/TDI16(h) - TK-701H - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0611	TDI07(i)/TDI16(i) - TK-701I - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0612	TDI07(j)/TDI16(j) - TK-701J - TDI Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0513	TDI07(k)/TDI16(k) - TK-727 - Overflow Tank
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0514	TDI07(l)/TDI16(l) - TDI Rail Loading
EQT0348	TDI07 - TDI Carbon Adsorber	Controls emissions from	EQT0515	TDI07(m)/TDI16(m) - TDI Truck Loading
EQT0352	TDI11 - HCl Storage and Loading Scrubber	Controls emissions from	EQT0516	TDI11(a) - TK-702A - HCl Tank
EQT0352	TDI11 - HCl Storage and Loading Scrubber	Controls emissions from	EQT0517	TDI11(b) - TK-702B - HCl Tank
EQT0352	TDI11 - HCl Storage and Loading Scrubber	Controls emissions from	EQT0518	TDI11(c) - TK-702C - HCl Tank
EQT0352	TDI11 - HCl Storage and Loading Scrubber	Controls emissions from	EQT0519	TDI11(d) - TK-702D - HCl Tank
EQT0352	TDI11 - HCl Storage and Loading Scrubber	Controls emissions from	EQT0520	TDI11(e) - HCl Rail Loading
EQT0352	TDI11 - HCl Storage and Loading Scrubber	Controls emissions from	EQT0521	TDI11(f) - HCl Truck Loading

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040003
Permit Number: 2643-v1
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
TDI Plant						
EQT0519	TDI11(d) - TK-702D - HCl Tank	367000 gallons		37.52 MM gallons/yr	HCl	8760 hr/yr (All Year)
EQT0520	TDI11(e) - HCl Rail Loading			30.02 MM gallons/yr	HCl	8760 hr/yr (All Year)
EQT0521	TDI11(f) - HCl Truck Loading			15.01 MM gallons/yr	HCl	8760 hr/yr (All Year)
EQT0522	NA - French Drain Wastestream					8760 hr/yr (All Year)
EQT0523	NA - K112 Wastestream (T-120 Bottoms)					8760 hr/yr (All Year)
EQT0530	TDI02(g) - T-110/S114 Toluidine Drum/T-120				Toluidine	8760 hr/yr (All Year)
EQT0551	TDI02(g) - D-137 TDA Tar Storage				TDA	8760 hr/yr (All Year)
EQT0562	TDI02(g)/TDI19(d) - D-138 TDA Tar Storage				TDA	8760 hr/yr (All Year)
EQT0564	TDI02(h) - T-520 Caustic Scrubber Tower Vent					8760 hr/yr (All Year)
EQT0555	TDI02(i) - T-504 Toluene Drying				Toluene	8760 hr/yr (All Year)
EQT0556	TDI12(a) - Jet System Vent/D115/T136/J143/J144					8760 hr/yr (All Year)
EQT0557	TDI12(b) - TK-160/A/B TDA Storage				TDA	8760 hr/yr (All Year)
EQT0558	TDI12(c) - TK-311/A/B TDA Vicinal's Storage				TDA	8760 hr/yr (All Year)
EQT0559	TDI12(d) - D-642/A/B TDA Vicinal's Storage					8760 hr/yr (All Year)
EQT0560	TDI12(e) - D-136 TDA Tar Drum				TDA	8760 hr/yr (All Year)
EQT0561	TDI12(f) - Residue Recovery Distillation/Vent/T-440/N/P442				TDA	8760 hr/yr (All Year)
EQT0562	TDI13(a) - TDI Reaction Main Chamber Air					8760 hr/yr (All Year)
EQT0567	TDI13(l) - Flexhibit System					8760 hr/yr (All Year)
EQT0568	TDI02(j)/TDI19(c) - D-445 Waste TDI Residue Loading Tank					8760 hr/yr (All Year)
EQT0570	TDI03(a) - TDA Vicinal's Loading Transfer Rack					8760 hr/yr (All Year)
EQT0571	TDI15(a) - R-420 Reactor Vent					8760 hr/yr (All Year)
EQT0572	TDI15(b) - T-430 Water Recovery Column Vent					8760 hr/yr (All Year)
EQT0574	TDI02(l) - D-104 Crude TDA Surge Drum					8760 hr/yr (All Year)
FUG0018	TDI14 - TDI Plant Fugitive Emissions					8760 hr/yr (All Year)
Stack Information:						
ID	Description	Velocity [ft/sec]	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)
TDI Plant						
EQT0342	TDI01 - Toluene Tank TK-703			25		22
EQT0343	TDI02 - TDI Flare					77
EQT0344	TDI03 - TDA Vicinal's Loading Carbon Adsorber		22.2	1769.3	1.3	200
EQT0345	TDI04 - TDI Plant Cooling Tower No. 1				.25	1500
EQT0346	TDI05 - TDI Plant Cooling Tower No. 2					20
EQT0347	TDI06 - TDI Plant Cooling Tower No. 3					100
EQT0348	TDI07 - TDI Carbon Adsorber					54
EQT0349	TDI08 - TK-704 Toluene Tank					90
EQT0350	TDI09 - TK-331 TDA Sump Storage Tank					83.75
						90
						26.25
						20
						100
						18
						77
						23
						77

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040003
Permit Number: 2643-V1
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
TDI Plant						
EQT0342	TDI01 - Toluene Tank TK-703	15,230 gallons	27 MM BTU/hr	1.11 MM gallons/yr	Toluene	8760 hr/yr (All Year)
EQT0343	TDI02 - TDI Flare		4.24 MM gallons/yr	22 MM BTU/hr		8760 hr/yr (All Year)
EQT0344	TDI03 - TDA Vicinal Loading Carbon Adsorber		26000 gallons/min	4.24 MM gallons/yr		8760 hr/yr (All Year)
EQT0345	TDI04 - TDI Plant Cooling Tower No. 1		5000 gallons/min	26000 gallons/min		8760 hr/yr (All Year)
EQT0346	TDI05 - TDI Plant Cooling Tower No. 2		11500 gallons/min	5000 gallons/min		8760 hr/yr (All Year)
EQT0347	TDI06 - TDI Plant Cooling Tower No. 3					8760 hr/yr (All Year)
EQT0348	TDI07 - TDI Carbon Adsorber					8760 hr/yr (All Year)
EQT0349	TDI08 - TK-704 Toluene Tank	15000 gallons		2.21 MM gallons/yr		8760 hr/yr (All Year)
EQT0350	TDI09 - TK-331 TDA Sump Storage Tank	56000 gallons		11.5 MM gallons/yr		8760 hr/yr (All Year)
EQT0351	TDI10 - TK-340 Offspec Water Tank	12600 gallons		500000 gallons/yr		8760 hr/yr (All Year)
EQT0352	TDI11 - HCl Storage and Loading Scrubber			121.52 MM gallons/yr		8760 hr/yr (All Year)
EQT0353	TDI12 - TDA Water Scrubber Vent T-150					8760 hr/yr (All Year)
EQT0354	TDI13 - Destuct Tower/Caustic Scrubber T-510					8760 hr/yr (All Year)
EQT0355	TDI15 - Residue Constituent Recovery Vent Scrubber T-435					8760 hr/yr (All Year)
EQT0356	TDI16 - TDI Carbon Adsorber					8760 hr/yr (All Year)
EQT0357	TDI17 - DNT Drum D-705	4300 gallons				8760 hr/yr (All Year)
EQT0358	TDI18 - TK-708 Spike Tank Carbon Drum D-708					8760 hr/yr (All Year)
EQT0359	TDI19 - Waste Product Loading Carbon Drum					8760 hr/yr (All Year)
EQT0497	TDI02(d)/TDI19(a) - D-721A-Wet Toluene Tank			14837 gallons/yr	Wet Toluene	8760 hr/yr (All Year)
EQT0498	TDI02(e)/TDI19(b) - D-721B-Dry Toluene Solvent Tank			14837 gallons/yr	Dry Toluene	8760 hr/yr (All Year)
EQT0499	TDI02(f) - TDA Reactor Processes					8760 hr/yr (All Year)
EQT0500	TDI02(g) - TD102(g) - TDA Distillation Processes					8760 hr/yr (All Year)
EQT0501	TDI02(h) - TDI Reactor Processes					8760 hr/yr (All Year)
EQT0502	TDI02(i) - TDI Distillation Processes			414000 gallons/yr	TDI/MDI	8760 hr/yr (All Year)
EQT0503	TDI07(a)/TDI16(a) - TK-701A - TDI Tank	25000 gallons		383000 gallons/yr	TDI	8760 hr/yr (All Year)
EQT0504	TDI07(b)/TDI16(b) - TK-701B - TDI Tank	25000 gallons		414000 gallons/yr	TDI/MDI	8760 hr/yr (All Year)
EQT0505	TDI07(c)/TDI16(c) - TK-701C - TDI Tank	25000 gallons		383000 gallons/yr	TDI	8760 hr/yr (All Year)
EQT0506	TDI07(d)/TDI16(d) - TK-701D - TDI Tank	25000 gallons		383000 gallons/yr	TDI	8760 hr/yr (All Year)
EQT0507	TDI07(e)/TDI16(e) - TK-701E - TDI Tank	25000 gallons		383000 gallons/yr	TDI	8760 hr/yr (All Year)
EQT0508	TDI07(f)/TDI16(f) - TK-701F - TDI Tank	25000 gallons		15.34 MM gallons/yr	TDI	8760 hr/yr (All Year)
EQT0509	TDI07(g)/TDI16(g) - TK-701G - TDI Tank	150000 gallons		15.34 MM gallons/yr	TDI	8760 hr/yr (All Year)
EQT0510	TDI07(h)/TDI16(h) - TK-701H - TDI Tank	150000 gallons		15.34 MM gallons/yr	TDI	8760 hr/yr (All Year)
EQT0511	TDI07(i)/TDI16(i) - TK-701I - TDI Tank	220000 gallons		5.11 MM gallons/yr	TDI	8760 hr/yr (All Year)
EQT0512	TDI07(j)/TDI16(j) - TK-701J - TDI Tank	220000 gallons		5.11 MM gallons/yr	TDI	8760 hr/yr (All Year)
EQT0513	TDI07(k)/TDI16(k) - TK-727 - Overflow Tank	3750 gallons				8760 hr/yr (All Year)
EQT0514	TDI07(l)/TDI16(l) - TDI Rail Loading			6.13 MM gallons/yr	TDI	8760 hr/yr (All Year)
EQT0515	TDI07(m)/TDI16(m) - TDI Truck Loading			3.07 MM gallons/yr	TDI	8760 hr/yr (All Year)
EQT0516	TDI11(a) - TK-702A - HCl Tank			5.26 MM gallons/yr	HCl	8760 hr/yr (All Year)
EQT0517	TDI11(b) - TK-702B - HCl Tank			6 MM gallons/yr	HCl	8760 hr/yr (All Year)
EQT0518	TDI11(c) - TK-702C - HCl Tank	367000 gallons		37.52 MM gallons/yr	HCl	8760 hr/yr (All Year)

General Information

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Geismar, LA 707340457

Location of Front Gate: 30° 12' 37" 61 hundredths latitude, 91° 0' 54" 94 hundredths longitude, Coordinate Method: GPS Code (Psuedo Range) Differential, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
George Andis	PO Box 457 Geismar, LA 707340457	2253397309 (WP)	Radiation Safety Officer for	
George Andis	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Radiation Safety Officer for	
George Andis	PO Box 457 Geismar, LA 707340457	2253397309 (WP)	Radiation License Billing Party for	
George Andis	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Radiation License Billing Party for	
Bryan Brooks	PO Box 457 Geismar, LA 707340457	2253392963 (WP)	Accident Prevention Contact for	
Bryan Brooks	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Accident Prevention Contact for	
Bryan Brooks	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Accident Prevention Billing Party for	
Bryan Brooks	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Accident Prevention Billing Party for	
Mike Cohen	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	Responsible Official for	
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392043 (WP)	Water Permit Contact For	
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Solid Waste Billing Party for	
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Haz. Waste Billing Party for	
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Water Billing Party for	
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392043 (WP)	Water Billing Party for	
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392043 (WP)	Haz. Waste Billing Party for	
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392043 (WP)	Solid Waste Billing Party for	
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Water Permit Contact For	
Craig Tyndall	PO Box 457 Geismar, LA 707340457	JAMES.TYNDALL@ 2253392416 (WP)	Emission Inventory Contact for	
Craig Tyndall	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Emission Inventory Contact for	
Related Organizations:	Name	Address	Phone (Type)	Relationship
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	Operates	
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	Owns	
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	Air Billing Party for	
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	Emission Inventory Billing Party	
BASF Corp	c/o CT Corporation System Baton Rouge, LA 70809		Agent of Service for	
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	UST Billing Party for	
Turner Industrial LLC	8687 United Plaza Blvd Baton Rouge, LA 70809		Agent of Service for	

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@lafgov.

General Information

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Also Known As:	ID	Name	User Group	Start Date
	1923606-001w	Tax Exempt No	Accident Prevention	11-20-1999
0180-000113	LAD040776809	BASF Corp - Geismar Site	CDS Number	05-27-1993
PMT/PC/CA	00095	BASF Corp	Hazardous Waste Permitting	08-13-1980
LAD040776809	LA0002950	GRPA Baselines	Inactive & Abandoned Sites	10-01-1997
LAR10A929	LAR10B055	BASF Wyandotte Corp	Inactive & Abandoned Sites	06-09-1981
LAR10B264	LAR10B264	LPDES #	LPDES Permit #	06-09-1981
LAR10B264	WP2101	LPDES #	LPDES Permit #	05-22-2003
		LPDES #	LPDES Permit #	05-22-2003
		LPDES #	LPDES Permit #	05-22-2003
		LPDES #	LPDES Permit #	03-21-2003
		LPDES #	LPDES Permit #	12-12-2004
		LWDPs #	LWDPs Permit #	06-25-2003
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
		Radioactive Material License	Radiation License Number	11-03-2000
		Site ID #	Solid Waste Facility No.	12-11-2000
		BASF Corp	TEMPO Merge	05-17-2004
		BASF Wyandotte	TEMPO Merge	10-30-2000
		BASF Corp - Ecology	TEMPO Merge	12-11-2002
		BASF Wyandotte Corp Geismar Works Chem Div	TEMPO Merge	10-30-2000
		BASF Corp	TEMPO Merge	10-30-2000
		BASF Corp	TEMPO Merge	10-30-2000
		BASF Corp	TEMPO Merge	10-30-2000
		BASF Corp	TEMPO Merge	08-23-2004
		TRI #	Toxic Release Inventory	07-09-2004
		UST Facility ID (from UST legacy data)	UST FID #	10-11-2002
		BASF Corp - Site Drainage Improvements Phase 2	Water Certification	10-18-2000
	03000346	WQC 000831-04	Water Quality Certification #	12-03-2002
	WQC 980504-02	WQC 990720-02	Water Quality Certification #	07-20-1999
	WQC RC 040914-03	Water Quality Certification # Tank Terminal & Road Project	Water Certification	09-15-2004

Physical Location:
8404 River Rd (Hwy 75)
Geismar, LA 70734Mailing Address:
PO Box 457Main FAX: 2253392369
Main Phone: 2253397300

SPECIFIC REQUIREMENTS

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EQT0354 TDI13 - T-510 Destruct Tower Caustic Scrubber

- 104 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 105 [LAC 33:III.501.C.6] A report listing the hours that the scrubber operated below the minimum flowrate shall be submitted to the Department of Environmental Quality, Enforcement Division by March 31 for the preceding calendar year.
- 106 [LAC 33:III.501.C.6] Permittee shall inspect the scrubber according to plant preventative maintenance procedures and schedule. Parts shall be replaced as required. A record of maintenance inspections shall be kept on site, available for review by the Office of Environmental Compliance, Surveillance Division.
- 107 [LAC 33:III.501.C.6] Scrubber liquid flow rate recordkeeping by electronic or hard copy daily. Records will be kept on site and available for inspection by the Department of Environmental Quality, Surveillance Division (state only).
- 108 [LAC 33:III.501.C.6] The Destruct Tower Caustic Scrubber will operate with a minimum caustic and water pH ≥ 7.0 , and Flow rate ≥ 10.0 gallons/min. Scrubber operation will be maintained to ensure removal efficiency $\geq 95\%$ for chlorine, phosgene (COCl₂), and hydrochloric acid.
- 109 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: Hourly average Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class III TAP only. MACT is not required.

EQT0355 TDI15 - Residue Constituent Recovery Vent Scrubber T-435

- 110 [40 CFR 63.113(e)] TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)] Which Months: All Year Statistical Basis: None specified Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineerin assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessment, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
- 111 [40 CFR 63.115(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculation of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G. [40 CFR 63.118(c)] Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]
- 112 [40 CFR 63.117(b)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source receives/enriches a Class II TAP (toluenediamine) greater than the MER (facility wide). Maintain scrubber control to achieve $>98\%$ removal efficiency. Constitutes MACT control.

EQT0356 TDI16 - TDI Carbon Adsorber

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EQT0356 TDI16 - TDI Carbon Adsorber

- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.130(f)(1) through (f)(3). Subpart G. [40 CFR 63.130(f)]
- Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- Equipment/operational data recordkeeping by electronic or hard copy daily. Keep records of the tests to determine carbon canister life, as well as the dates of canister replacement, on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Permittee shall maintain and operate carbon adsorber to control emissions of VOC and TAPs in accordance with engineering design analyses and manufacturer's recommendations. Drum(s) shall be replaced as necessary, in accordance with their design and life expectancy to maintain control efficiencies. Based on engineering calculations by BASF, the TDI carbon drums will be changed out every 180 days. A record of the dates of drum replacement shall be kept on site and available for review by the Office of Environmental Compliance, Surveillance Division (state only).
- Replace canisters as necessary to maintain a control efficiency of 95% minimum.
- Source receives/permits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0357 TDI17 - DNT Drum D-705

- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emits DNT Class II TAP. No additional control determined as MACT.

EQT0358 TDI18 - D-709 TK-709 Spike Tank Carbon Drum

- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
- Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- Equipment/operational data recordkeeping by electronic or hard copy daily. Keep records of the tests to determine carbon canister life, as well as the dates of canister replacement, on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Permittee shall maintain and operate carbon adsorber to control emissions of VOC and TAPs in accordance with engineering design analyses and manufacturer's recommendations. Drum(s) shall be replaced as necessary, in accordance with their design and life expectancy to maintain control efficiencies. Based on engineering calculations by BASF, the TK-709 spike tank carbon drum will be changed out once per year. A record of the dates of drum replacement shall be kept on site and available for review by the Office of Environmental Compliance, Surveillance Division (state only).

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EQT0358 TDI18 - D-709 TK-709 Spike Tank Carbon Drum

- 128 [LAC 33:III.501.C.6]
 129 [LAC 33:III.5109.A]

Replace canisters as necessary to maintain a control efficiency of 95% minimum.
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) less than the MER (facility wide). No further control is required.

EQT0359 TDI19 - Waste Product Loading Carbon Drum

- 130 [40 CFR 63.130(f)]

- 131 [LAC 33:III.501.C.6]

- 132 [LAC 33:III.501.C.6]

- 133 [LAC 33:III.501.C.6]

- 134 [LAC 33:III.5109.A]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.130(f) through (f)(3). Subpart G. [40 CFR 63.130(f)]

Equipment/operational data recordkeeping by electronic or hard copy daily. Keep records of the tests to determine carbon canister life, as well as the dates of canister replacement, on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Permittee shall maintain and operate carbon adsorber to control emissions of VOC and TAPs in accordance with engineering design analyses and manufacturer's recommendations. Drums(s) shall be replaced as necessary, in accordance with their design and life expectancy to maintain control efficiencies. Based on engineering calculations by BASF, the Waste Product Loading carbon drum will be changed out every 60 days if loading at a rate of 81 to 165 trucks per year, every 90 days if loading at a rate of 41 to 80 trucks per year, and every 120 days if loading at a rate of <= 40 trucks per year. A record of the dates of drum replacement shall be kept on site and available for review by the Office of Environmental Compliance, Surveillance Division (state only). Replace canisters as necessary to maintain a control efficiency of 95% minimum.

Source emits Class II TAPs (carbon tetrachloride and chloroform) that exceed the MER for facility wide emissions. Permittee shall monitor drum removal efficiency to ensure 98% removal or greater. Compliance with this removal efficiency is considered to be MACT.

EQT0497 TDI02(d)/TDI19(a) - D-721A-Wet Toluene Tank

- 135 [40 CFR 63.123(a)]

- 136 [LAC 33:III.5109.A]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class III TAP only. MACT is not required.

EQT0498 TDI02(e)/TDI19(b) - D-721B-Dry Toluene Solvent Tank

- 137 [40 CFR 63.123(a)]

- 138 [LAC 33:III.5109.A]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class III TAP only. MACT is not required.

EQT0499 TDI02(f) - TDA Reactor Processes

- 139 [40 CFR 63.110(d)(8)]

Compliance with the provisions of 40 CFR 63.113 is considered to be compliance with 40 CFR 60 Subpart RRR. [40 CFR 63.110(d)(8)]

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EQT0499 TDI02(f) - TDA Reactor Processes

- 140 [40 CFR 63.113(g)] Organic HAP < 50 ppmv. Subpart G. [40 CFR 63.113(g)]
 Which Months: All Year Statistical Basis: None specified
 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- 142 [40 CFR 63.117(d)] Submit information: Due with the Notification of Compliance Status specified in 40 CFR 63.152. Submit the organic HAP or TOC concentration measurement using the methods and procedures specified in 40 CFR 63.115(a) and (c). Subpart G. [40 CFR 63.117(d)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the information specified in 40 CFR 63.118(e)(1) through (e)(3). Subpart G. [40 CFR 63.118(e)]
- 143 [40 CFR 63.118(e)] Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent to become a Group 1 process vent. Include the information specified in 40 CFR 63.118(g)(1) through (g)(3). Subpart G. [40 CFR 63.118(g)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT determined as combustion in flare, EQT 343.

EQT0500 TDI02(g) - TDA Distillation Processes

- 146 [40 CFR 63.110(d)(4)] Compliance with the requirements of 40 CFR 63 Subpart G is considered to be compliance with applicable portions of 40 CFR 60 Subpart NNN.
 [40 CFR 63.110(d)(4)] Reduce emissions of organic HAP using a flare. Do not vent halogenated vent streams to a flare. Subpart G. [40 CFR 63.113(a)(1)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class II and III TAPs only for which facility-wide total is greater than the MER. Combustion in TDI flare (EQT 343) determined as MACT.

EQT0501 TDI02(h) - TDI Reactor Processes

- 150 [40 CFR 63.110(d)(8)] Compliance with the provisions of 40 CFR 63.113 is considered to be compliance with 40 CFR 60 Subpart RRR. [40 CFR 63.110(d)(8)]
 151 [40 CFR 63.113(a)(1)] Reduce emissions of organic HAP using a flare. Do not vent halogenated vent streams to a flare. Subpart G. [40 CFR 63.113(a)(1)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Combustion in TDI flare (EQT 343) determined as MACT.

EQT0502 TDI02(i) - TDI Distillation Processes

- 154 [40 CFR 63.110(d)(4)] Compliance with the requirements of 40 CFR 63 Subpart G is considered to be compliance with applicable portions of 40 CFR 60 Subpart NNN.
 [40 CFR 63.110(d)(4)]

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EQT0502 TDI02(i) - TDI Distillation Processes

- 155 [40 CFR 63.113(a)(1)] Reduce emissions of organic HAP using a flare. Do not vent halogenated vent streams to a flare. Subpart G. [40 CFR 63.113(a)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class II and III TAPs only for which facility-wide total is greater than the MER. Emissions shall be controlled by TDI flare (EQT 343) which meets MACT standards.

EQT0503 TDI07(a)/TDI16(a) - TK-701A - TDI Tank

- 158 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0504 TDI07(b)/TDI16(b) - TK-701B - TDI Tank

- 160 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0505 TDI07(c)/TDI16(c) - TK-701C - TDI Tank

- 162 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0506 TDI07(d)/TDI16(d) - TK-701D - TDI Tank

- 164 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0507 TDI07(e)/TDI16(e) -TK-701E - TDI Tank

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EQT0507 TDI07(e)/TDI16(e) -TK-701E - TDI Tank

- 166 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

- 167 [LAC 33:III.5109.A]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0508 TDI07(f)/TDI16(f) -TK-701F - TDI Tank

- 168 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

- 169 [LAC 33:III.5109.A]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0509 TDI07(g)/TDI16(g) - TK-701G - TDI Tank

- 170 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

- 171 [LAC 33:III.5109.A]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0510 TDI07(h)/TDI16(h) - TK-701H - TDI Tank

- 172 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

- 173 [LAC 33:III.5109.A]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0511 TDI07(i)/TDI16(i) -TK-701I - TDI Tank

- 174 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

- 175 [LAC 33:III.5109.A]
 Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0512 TDI07(j)/TDI16(j) -TK-701J - TDI Tank

- 176 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

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EQT0512 TDI07(j)/TDI16(j) -TK-701J - TDI Tank

177 [LAC 33;III.5109.A]

Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0513 TDI07(k)/TDI16(k) -TK-727 - Overflow Tank

178 [40 CFR 63.123(a)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

Source receives/emits a Class II TAP (toluenediisocyanate (TDI)) that is less than the MER (facility wide). No further control is required.

EQT0516 TDI11(a) - TK-702A - HCl Tank

180 [40 CFR 63.8995(b)]

Permittee shall comply with the monitoring, recordkeeping, and reporting requirements of 40 CFR 63 Subpart NNNNN on or before April 17, 2006. [40 CFR 63.8995(b)]

EQT0517 TDI11(b) - TK-702B - HCl Tank

181 [40 CFR 63.8995(b)]

Permittee shall comply with the monitoring, recordkeeping, and reporting requirements of 40 CFR 63 Subpart NNNNN on or before April 17, 2006. [40 CFR 63.8995(b)]

EQT0518 TDI11(c) -TK-702C - HCl Tank

182 [40 CFR 63.8995(b)]

Permittee shall comply with the monitoring, recordkeeping, and reporting requirements of 40 CFR 63 Subpart NNNNN on or before April 17, 2006. [40 CFR 63.8995(b)]

EQT0519 TDI11(d) -TK-702D - HCl Tank

183 [40 CFR 63.8995(b)]

Permittee shall comply with the monitoring, recordkeeping, and reporting requirements of 40 CFR 63 Subpart NNNNN on or before April 17, 2006. [40 CFR 63.8995(b)]

EQT0520 TDI11(e) - HCl Rail Loading

184 [40 CFR 63.8995(b)]

Permittee shall comply with the monitoring, recordkeeping, and reporting requirements of 40 CFR 63 Subpart NNNNN on or before April 17, 2006. [40 CFR 63.8995(b)]

EQT0521 TDI11(f) - HCl Truck Loading

185 [40 CFR 63.8995(b)]

Permittee shall comply with the monitoring, recordkeeping, and reporting requirements of 40 CFR 63 Subpart NNNNN on or before April 17, 2006. [40 CFR 63.8995(b)]

SPECIFIC REQUIREMENTS

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EQT0522 French Drain Wastestream

186 [LAC 33:III.5109.A] Wastewater stream emits Class I and/or II TAPs less than the MER (facility wide). No further control is required.

EQT0523 K112 Wastestream (T-120 Bottoms)

187 [40 CFR 63.132(a)(3)] Permittee will comply with applicable monitoring, recordkeeping, and reporting requirements specified for Group 2 wastewater streams specified in 40 CFR 63.146(b)(1) and 63.147(b)(8). [40 CFR 63.132(a)(3)]
 Wastewater stream emits Class I and/or II TAPs less than the MER (facility wide). No further control is required.

EQT0550 TD102(g) - T-110/S114 Toluidine Drum/T-120

189 [40 CFR 63.113(a)(1)] Reduce emissions of organic HAP using a flare. Do not vent halogenated vent streams to a flare. Subpart G. [40 CFR 63.113(a)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class II and III TAPs only for which facility-wide total is greater than the MER. Combustion in TD1 flare (EQT 343) determined as MACT.

EQT0551 TD102(g) - D-137 TDA Tar Storage

192 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class II and III TAPs only for which facility-wide total is greater than the MER. Combustion in TD1 flare (EQT 343) determined as MACT.

EQT0552 TD102(g)/TD119(d) - D-138 TDA Tar Storage

194 [40 CFR 63.119(e)(1)] Inlet emissions: Organic HAP $\geq 95\%$ reduction, except as provided in 40 CFR 63.119(e)(2). If a flare is used, it shall meet the specifications described in the general control device requirements of 40 CFR 63.11(b). Subpart G. [40 CFR 63.119(e)(1)]
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class II and III TAPs only for which facility-wide total is greater than the MER. Combustion in TD1 flare (EQT 343) determined as MACT.

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
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EQT0554 TDI02(h) - T-520 Caustic Scrubber Tower Vent

- 197 [40 CFR 63.113(a)(1)] Reduce emissions of organic HAP using a flare. Do not vent halogenated vent streams to a flare as defined in 40 CFR 63.111. Subpart G. [40 CFR 63.113(a)(1)]
- 198 [40 CFR 63.114(a)(4)(iii)] Flow rate monitored by flow rate monitoring device continuously. Equip the flow monitor with a continuous recorder and install at the scrubber influent for liquid flow. Determine gas flow using one of the procedures specified in 40 CFR 63.114(a)(4)(ii)(A) through (a)(4)(ii)(C). Subpart G. [40 CFR 63.114(a)(4)(ii)]
- 199 [40 CFR 63.114(a)(4)i] Which Months: All Year Statistical Basis: None specified Weight percent sodium hydroxide caustic stream level monitored by online percent caustic analyzer equipped with continuous recorder. Monitor the weight percent caustic of the scrubber effluent. Subpart G. [40 CFR 63.114(a)(4)i]
- 200 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 201 [LAC 33.III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class II and III TAPs only for which facility-wide total is greater than the MER. Combustion in TDI flare (EQT 343) determined as MACT.

EQT0555 TDI02(i) - T-504 Toluene Drying

- 202 [40 CFR 63.113(a)(1)] Reduce emissions of organic HAP using a flare. Do not vent halogenated vent streams to a flare. Subpart G. [40 CFR 63.113(a)(1)]
- 203 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 204 [LAC 33.III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class II and III TAPs only for which facility-wide total is greater than the MER. Combustion in TDI flare (EQT 343) determined as MACT.

EQT0568 TDI02(j)/TDI19(c) - D-415 Waste TDI Residue Loading Tank

- 205 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
- 206 [LAC 33.III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class III TAP only. MACT is not required.

EQT0571 TDI15(a) - R-420 Reactor Vent

- 207 [40 CFR 63.113(e)] TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]
- 208 [40 CFR 63.115(e)] Which Months: All Year Statistical Basis: None specified Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]

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EQT0571 TD15(a) - R-420 Reactor Vent

- 209 [40 CFR 63.117(b)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent to become a Group 1 process vent. Include the information specified in 40 CFR 63.118(g)(1) through (g)(3). Subpart G. [40 CFR 63.118(g)]
 210 [40 CFR 63.118(g)] Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]

EQT0572 TD15(b) - T-430 Water Recovery Column Vent

- 212 [40 CFR 63.113(e)] TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]
 Which Months: All Year Statistical Basis: None specified
 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent to become a Group 1 process vent. Include the information specified in 40 CFR 63.118(g)(1) through (g)(3). Subpart G. [40 CFR 63.118(g)]
 213 [40 CFR 63.115(e)] Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]

EQT0574 TD102(f) - D-104 Crude TDA Surge Drum

- 217 [40 CFR 63.110(d)(8)] Compliance with the provisions of 40 CFR 63.113 is considered to be compliance with 40 CFR 60 Subpart RRR. [40 CFR 63.110(d)(8)]
 218 [40 CFR 63.113(g)] Organic HAP < 50 ppmv. Subpart G. [40 CFR 63.113(g)]
 Which Months: All Year Statistical Basis: None specified
 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
 Submit information: Due with the Notification of Compliance Status specified in 40 CFR 63.152. Submit the organic HAP or TOC concentration measurement using the methods and procedures specified in 40 CFR 63.115(a) and (c). Subpart G. [40 CFR 63.117(d)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the information specified in 40 CFR 63.118(e)(1) through (e)(3). Subpart G. [40 CFR 63.118(e)]

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EQT0574 TDI02(f) - D-104 Crude TDA Surge Drum

- 222 [40 CFR 63.118(g)]
 223 [LAC 33:III.5109.A]

Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent to become a Group 1 process vent. Include the information specified in 40 CFR 63.118(g)(1) through (g)(3). Subpart G. [40 CFR 63.118(g)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT determined as combustion in flare, EQT 343.

FUG0018 TDI14 - TDI Plant Fugitive Emissions

- 224 [40 CFR 63.162(c)]
 225 [40 CFR 63.162(f)]
 226 [40 CFR 63.163(b)(1)]
 227 [40 CFR 63.163(b)(3)]
 228 [40 CFR 63.163(c)]
 229 [40 CFR 63.163(d)(2)]
 230 [40 CFR 63.163(d)(4)]
 231 [40 CFR 63.163(e)(1)]
 232 [40 CFR 63.163(e)(2)]

Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. [40 CFR 63.162(c)]
 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(l)(3) and 63.175(e)(1)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (i). If a reading of 10,000 ppm (phase I), or 5,000 ppm (phase II), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
 Which Months: All Year Statistical Basis: None specified
 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
 Which Months: All Year Statistical Basis: None specified
 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 1.5 calendar days after the leak is detected, except as provided in 40 CFR 63.163(o)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172, or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]

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FUG0018 TDI14 - TDI Plant Fugitive Emissions

- 233 [40 CFR 63.163(e)(3)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]
- 234 [40 CFR 63.163(e)(4)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- 235 [40 CFR 63.163(e)(6)(i)] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]
- 236 [40 CFR 63.163(e)(6)] Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]
- 237 [40 CFR 63.163(e)] Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]
- Which Months: All Year Statistical Basis: None specified
- 238 [40 CFR 63.163(h)] Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.163(b)(3) and (c)(4), and the daily requirements of 40 CFR 63.163(e)(5). Subpart H. [40 CFR 63.163(h)]
- Which Months: All Year Statistical Basis: None specified
- 239 [40 CFR 63.163(j)(1)] Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
- 240 [40 CFR 63.163(j)(2)] Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 241 [40 CFR 63.164(a)] Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]

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FUG0018 TDI14 - TDI Plant Fugitive Emissions

- 242 [40 CFR 63.164(b)] Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure, or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 243 [40 CFR 63.164(c)] Compressors: Ensure that the barrier fluid is not in liquid service. Subpart H. [40 CFR 63.164(c)]
- 244 [40 CFR 63.164(d)] Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 245 [40 CFR 63.164(e)(2)] Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 246 [40 CFR 63.164(g)] Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 247 [40 CFR 63.164(i)(2)] Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
- 248 [40 CFR 63.164] Which Months: All Year Statistical Basis: None specified
 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H.
- 249 [40 CFR 63.165(a)] Which Months: All Year Statistical Basis: None specified
 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- 250 [40 CFR 63.165(b)(1)] Which Months: All Year Statistical Basis: None specified
 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 251 [40 CFR 63.165(b)(2)] Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
- 252 [40 CFR 63.165(d)(2)] Which Months: All Year Statistical Basis: None specified
 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
- 253 [40 CFR 63.166] Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H.

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- 254 [40 CFR 63.167] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H.
- 255 [40 CFR 63.168(c)] Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- 256 [40 CFR 63.168(c)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- 257 [40 CFR 63.168(d)(1)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
- 258 [40 CFR 63.168(d)(2)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
- 259 [40 CFR 63.168(e)(1)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- 260 [40 CFR 63.168(f)(3)] Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
- 261 [40 CFR 63.168(f)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 262 [40 CFR 63.168(h)(1)] Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]
- 263 [40 CFR 63.168(h)(2)] Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
- 264 [40 CFR 63.168(h)(3)] Which Months: All Year Statistical Basis: None specified

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- 264 [40 CFR 63.168(i)(1)] Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- 265 [40 CFR 63.168(i)(3)] Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(3)]
- 266 [40 CFR 63.169(a)] Which Months: All Year Statistical Basis: None specified Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
- 267 [40 CFR 63.169(c)] Which Months: All Year Statistical Basis: None specified Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- 268 [40 CFR 63.170] Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H.
- 269 [40 CFR 63.172(D)(1)(i)] Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(h)(1)(i)]
- 270 [40 CFR 63.172(D)(1)(ii)] Which Months: All Year Statistical Basis: None specified Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
- 271 [40 CFR 63.172(D)(2)(i)] Which Months: All Year Statistical Basis: None specified Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)]
- 272 [40 CFR 63.172(D)(2)(ii)] Which Months: All Year Statistical Basis: None specified Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)]
- 273 [40 CFR 63.172(h)] Which Months: All Year Statistical Basis: None specified Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(h)]

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- 274 [40 CFR 63.172(j)(2)] Closed-vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart H. [40 CFR 63.172(j)(2)]
 Which Months: All Year Statistical Basis: None specified
- 275 [40 CFR 63.172(j)(2)] Closed-vent system (bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]
- 276 [40 CFR 63.172(k)(1)] Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- 277 [40 CFR 63.172(k)(2)] Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
- 278 [40 CFR 63.172(l)(1)] Which Months: All Year Statistical Basis: None specified
 Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]
- 279 [40 CFR 63.172(l)(2)] Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)]
- 280 [40 CFR 63.172(m)] Which Months: All Year Statistical Basis: None specified
 Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
- 281 [40 CFR 63.173(a)] Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
- 282 [40 CFR 63.173(b)] Which Months: All Year Statistical Basis: None specified
 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
- 283 [40 CFR 63.173(c)] Which Months: All Year Statistical Basis: None specified
 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
- 284 [40 CFR 63.173(d)(1)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172, or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]

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- 285 [40 CFR 63.173(d)(2)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
- 286 [40 CFR 63.173(d)(3)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]
- 287 [40 CFR 63.173(d)(4)] Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
- 288 [40 CFR 63.173(d)(6)(i)] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]
- 289 [40 CFR 63.173(d)(6)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]
- 290 [40 CFR 63.173(d)] Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]
- 291 [40 CFR 63.173(g)] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.173(b)(1) and (d)(4), and the daily requirements of 40 CFR 63.173(d)(5). Subpart H. [40 CFR 63.173(g)]
- 292 [40 CFR 63.173(h)(1)] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service or light liquid service (difficult to monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]
- 293 [40 CFR 63.173(h)(3)] Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]

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- 294 [40 CFR 63.173(i)(1)] Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]
- 295 [40 CFR 63.173(i)(2)] Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]
- Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]
- 296 [40 CFR 63.174(b)(1)] Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]
- 297 [40 CFR 63.174(b)(3)(i)] Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
- 298 [40 CFR 63.174(b)(3)(ii)] Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
- 299 [40 CFR 63.174(c)(1)(ii)] Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- 300 [40 CFR 63.174(c)(2)(ii)] Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 301 [40 CFR 63.174(c)(2)(ii)] Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]

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- 304 [40 CFR 63.174(f)(2)] Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(d)(2)]
- 305 [40 CFR 63.174(g)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]
- 306 [40 CFR 63.174(h)(2)] Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]
- 307 [40 CFR 63.174(i)] Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
- 308 [40 CFR 63.180] Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.
- 309 [40 CFR 63.181] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
- 310 [40 CFR 63.182(b)] Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 311 [40 CFR 63.182(c)] Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 312 [40 CFR 63.182(d)] Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 313 [LAC 33:III.2.111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 314 [LAC 33:III.501.C.6] Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (40 CFR 63 Subpart H (HON)) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.

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315 [LAC 33:III.501.C.6]

Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Non-compliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emission programs.

Unit/Plant Site	Programs Being Streamlined	Stream Applicability	Overall Most Stringent Program
TDI/BASF	40 CFR 63 Subpart H	Streams containing >=5% OHAP	40 CFR 63 Subpart H
	40 CFR 60 Subpart VV	Streams containing >=10% VOC	
	LAC 33:III.2122	Streams containing >=10% VOC	
	RCRA Subpart BB	Streams containing >=10% VOC	

316 [LAC 33:III.501.C.6]

Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on July 31 and January 31, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the most stringent program. Annual monitoring shall be defined as once every four quarters.

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318 [40 CFR 60.]

319 [40 CFR 61.]

320 [40 CFR 63.102(a)]

321 [40 CFR 63.103(b)(1)]

322 [40 CFR 63.103(b)(2)]

323 [40 CFR 63.103(b)(3)]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

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- 324 [40 CFR 63.103(b)(6)]
- 325 [40 CFR 63.103(c)(1)]
- 326 [40 CFR 63.103(c)(2)]
- 327 [40 CFR 63.103(c)]
- 328 [40 CFR 63.103(e)]
- 329 [40 CFR 63.104(b)]
- 330 [40 CFR 63.104(c)(3)]
- 331 [40 CFR 63.104(c)]
- 332 [40 CFR 63.104(d)]
- 333 [40 CFR 63.104(f)]
- 334 [40 CFR 63.105(d)]

Conduct all required compliance demonstrations for flexible operation units during production of the primary product. Operate each control device, recovery device, and/or recapture device that is required or used for compliance, and associated monitoring systems, without regard for whether the product that is being produced is the primary product or a different product, except as otherwise specified in 40 CFR 63 Subparts F, G and H. Subpart F. [40 CFR 63.103(b)(6)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

Retain information, data and analysis used to determine that the chemical manufacturing process unit does not use as a reactant or manufacture as a product or co-product any organic hazardous air pollutant; OR when requested by DEQ, demonstrate that the chemical manufacturing process unit does not use as a reactant or manufacture as a product or co-product any organic hazardous air pollutant. Subpart F. [40 CFR 63.103(e)]

Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more speciated HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Subpart F. [40 CFR 63.104(b)]

Which Months: All Year Statistical Basis: None specified

Heat exchange systems: Maintain on-site, or accessible from a central location by computer or other means that provide access within 2 hours after a request. If a monitoring plan is superseded, retain the most recent superseded plan at least until 5 years from the date of its creation. Retain the superseded plan on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after its creation. Subpart F. [40 CFR 63.104(c)(3)]

Heat exchange systems: Prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling water. Require monitoring of one or more surrogate indicators or monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.104(c)(1)(i) and (ii). Monitor no less frequently than monthly for the first six months and quarterly thereafter to detect leaks. If a substantial leak is identified by methods other than those described in the monitoring plan and method(s) specified in the plan could not detect the leak, revise the plan and document the basis for the changes. Complete revisions to the plan no later than 180 days after discovery of the leak. Subpart F. [40 CFR 63.104(c)]

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy continuously. Retain the records identified in 40 CFR 63.104(f)(1) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

Maintenance wastewater: Implement the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]

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- 335 [40 CFR 63.105(e)]
 Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]
- 336 [40 CFR 63.105]
 Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 337 [40 CFR 63.112(a)]
 Control emissions of organic HAP's to the level represented by the equation listed in 40 CFR 63.112(a). Subpart G. [40 CFR 63.112(a)]
- 338 [40 CFR 63.112(c)]
 Demonstrate compliance with the emission standard in 40 CFR 63.112(a) by following the procedures specified in 40 CFR 63.112(e) for all emission points, or by following the emissions averaging compliance approach specified in 40 CFR 63.112(f) for some emission points and the procedures specified in 40 CFR 63.112(e) for all other emission points within the source. Subpart G. [40 CFR 63.112(c)]
- 339 [40 CFR 63.151(b)]
 Submit Initial Notification: Due in writing within 120 calendar days after the date of promulgation of 40 CFR 63 Subpart G. Include the information specified in 40 CFR 63.151(b)(1)(i) through (b)(1)(v). Subpart G. [40 CFR 63.151(b)]
- 340 [40 CFR 63.151(b)]
 Submit Initial Notification: Due in writing within 90 calendar days after the date of promulgation of 40 CFR 63 Subpart G. Include the information specified in 40 CFR 63.151(b)(1)(i) through (b)(1)(v). Subpart G. [40 CFR 63.151(b)]
- 341 [40 CFR 63.151(b)]
 Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of an Initial Notification. Submit application as soon as practicable before construction or reconstruction is planned to commence (but it need not be sooner than 90 calendar days after the date of promulgation of 40 CFR 63 Subpart G). Include the information specified in 40 CFR 63.151(b)(1)(i) through (b)(1)(v). Subpart G. [40 CFR 63.151(b)]
- 342 [40 CFR 63.152(b)]
 Submit Notification of Compliance Status: Due within 150 calendar days after the compliance dates specified in 40 CFR 63.100. Include the information specified in 40 CFR 63.152(b)(1) through (b)(6), as applicable. Subpart G. [40 CFR 63.152(b)]
- 343 [40 CFR 63.152(c)]
 Submit Periodic Reports: Due semiannually no later than 60 calendar days after the end of each 6-month period, except as specified in 40 CFR 63.152(c)(5) and (c)(6). Submit the first report no later than 8 months after the date the Notification of Compliance Status is due. Include the information specified in 40 CFR 63.152(c)(2) through (c)(4). Subpart G. [40 CFR 63.152(c)]
- 344 [40 CFR 63.152(f)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records as specified in 40 CFR 63.152(f)(1) through (f)(7). Subpart G. [40 CFR 63.152(f)]
- 345 [40 CFR 63.]
 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 1A of 40 CFR 63 Subpart G and Table 4 of 40 CFR 63 Subpart H.
- 346 [40 CFR 63.]
 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 3 of 40 CFR 63 Subpart F.
- 347 [40 CFR 63.]
 Permittee shall comply with all appropriate monitoring, recordkeeping, and reporting requirements specified under 40 CFR 63 Subpart G and further identified under specific emission points listed in this permit.
- 348 [40 CFR 63.]
 Permittee shall comply with appropriate monitoring, recordkeeping, and reporting requirements shown in 40 CFR 63 Subpart H for equipment leaks specified under Plant Fugitive Emissions (FUG18).
- 349 [40 CFR 68.15(a)]
 Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]

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- 350 [40 CFR 68.15(b)]
 351 [40 CFR 68.15(e)]
 352 [40 CFR 68.15(e)]
 353 [40 CFR 68.150]
 354 [40 CFR 68.155]
 355 [40 CFR 68.160]
 356 [40 CFR 68.165]
 357 [40 CFR 68.168]
 358 [40 CFR 68.175]
 359 [40 CFR 68.180]
 360 [40 CFR 68.185(b)]
 361 [40 CFR 68.190(c)]
 362 [40 CFR 68.190]
 363 [40 CFR 68.200]
 364 [40 CFR 68.22]
 365 [40 CFR 68.25]
 366 [40 CFR 68.28]
 367 [40 CFR 68.30]
 368 [40 CFR 68.31]
 369 [40 CFR 68.36(b)]

Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]
 Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
 Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.
 Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
 Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
 Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13).
 Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
 Provide in the RMP the information indicated in 68.173(b) through (p).
 Provide in the RMP the emergency response information listed in 68.180(a) through (c).
 Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
 Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
 Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999.
 Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
 Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
 Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
 Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).
 Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
 List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
 Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]

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- 370 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.
- 371 [40 CFR 68.39] Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68. [40 CFR 68.65(a)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(d)(2)]
- Determine that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)]
- Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)]
- Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(e)]

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- 383 [40 CFR 68.67(f)]
 Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis, to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)]
- 384 [40 CFR 68.67(e)]
 Retain process hazards analyses and updates or validations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(e), for the life of the process. [40 CFR 68.67(g)]
- 385 [40 CFR 68.67]
 Perform an initial process hazard analysis (hazard evaluation) on processes covered by 40 CFR 68 as soon as possible, but not later than June 21, 1999. The process hazard analysis shall identify, evaluate, and control the hazards involved in the process, and address the information in 40 CFR 68.67(c)(1) through (7).
- 386 [40 CFR 68.69(a)]
 Develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 387 [40 CFR 68.69(b)]
 Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 388 [40 CFR 68.69(c)]
 Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 389 [40 CFR 68.69(d)]
 Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]
- 390 [40 CFR 68.7(a)(1)]
 Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.7(a)(1)]
- 391 [40 CFR 68.7(b)]
 Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.7(b)]
- 392 [40 CFR 68.7(c)]
 Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.7(c)]
- 393 [40 CFR 68.7(c)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 394 [40 CFR 68.71(b)]
 Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 395 [40 CFR 68.73(c)]
 Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 396 [40 CFR 68.73(d)(4)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 397 [40 CFR 68.73(d)]
 Perform inspections and tests following recognized and generally accepted good engineering practices on process equipment listed in 40 CFR 68.73(a). Make the frequency of inspections and tests consistent with applicable manufacturer's recommendations and good engineering practices, and more frequently if determined to be necessary by prior operating experience. [40 CFR 68.73(d)]

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- 398 [40 CFR 68.71(e)]
Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 399 [40 CFR 68.73(f)]
Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]
- 400 [40 CFR 68.75(c)]
Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 401 [40 CFR 68.75(d)]
Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information. [40 CFR 68.75(d)]
- 402 [40 CFR 68.75(e)]
Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]
- 403 [40 CFR 68.75(e)]
Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change.
- 404 [40 CFR 68.77]
Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process.
- 405 [40 CFR 68.79(c)]
Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 406 [40 CFR 68.79(d)]
Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]
- 407 [40 CFR 68.79(d)]
Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(d)]
- 408 [40 CFR 68.79(e)]
Retain the two (2) most recent compliance audit reports. [40 CFR 68.79(e)]
- 409 [40 CFR 68.79] Conduct compliance audit: Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process.
- 410 [40 CFR 68.81(c)]
Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- 411 [40 CFR 68.81(e)]
Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]
- 412 [40 CFR 68.81(e)]
Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]
- 413 [40 CFR 68.81]
Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance.

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- 414 [40 CFR 68.81] Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years.
- 415 [40 CFR 68.83(a)] Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]
- 416 [40 CFR 68.83(b)] Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(b)]
- 417 [40 CFR 68.83(c)] Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]
- 418 [40 CFR 68.85] Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work; and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations.
- 419 [40 CFR 68.87(b)(1)] Obtain and evaluate information regarding the contract owner or operator's safety performance and programs, when selecting a contractor. [40 CFR 68.87(b)(1)]
- 420 [40 CFR 68.87(b)(2)] Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]
- 421 [40 CFR 68.87(b)(3)] Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]
- 422 [40 CFR 68.87(b)(4)] Develop and implement safe work practices consistent with Sec. 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]
- 423 [40 CFR 68.87(b)(5)] Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]
- 424 [40 CFR 68.95(a)] Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
- 425 [40 CFR 68.95(c)] Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
- 426 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 427 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

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- 428 [40 CFR 70.6(a)(3)(ii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(ii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 429 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 430 [40 CFR 82. Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 431 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111
- 432 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 433 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 434 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 435 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 436 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 437 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 438 [LAC 33:III.501.C.6] Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
- 439 [LAC 33:III.501.C.6] Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- 440 [LAC 33:III.507.G.5] Alternate Operating Scenario: Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years.

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- 441 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 442 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.
- 443 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 444 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 445 [LAC 33:III.5107.A.2] Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 446 [LAC 33:III.5107.A.3] Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations"
- 447 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 448 [LAC 33:III.5107.B.2] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 449 [LAC 33:III.5107.B.3] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923.
- 450 [LAC 33:III.5107.B.4] Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii.
- 451 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

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- 452 [LAC 33:III.5109.B.3] Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology.
- 453 [LAC 33:III.5109.B] Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2.
- 454 [LAC 33:III.5109.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department.
- 455 [LAC 33:III.5111.A.1] Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source.
- 456 [LAC 33:III.5111.A.2.a] Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source.
- 457 [LAC 33:III.5111.A] Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified.
- 458 [LAC 33:III.5113.B.1] Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.
- 459 [LAC 33:III.5113.B.1] Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test.
- 460 [LAC 33:III.5113.B.2] Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ.
- 461 [LAC 33:III.5113.B.3] Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- 462 [LAC 33:III.5113.B.4] Provide emission testing facilities as specified in LAC 33:III.5113.B.4. a through e.
- 463 [LAC 33:III.5113.B.5] Analyze samples and determine emissions within 30 days after each emission test has been completed.
- 464 [LAC 33:III.5113.B.5] Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test.
- 465 [LAC 33:III.5113.B.6] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.
- 466 [LAC 33:III.5113.B.7] Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test.
- 467 [LAC 33:III.5113.C.1] Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.
- 468 [LAC 33:III.5113.C.2] Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
- Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

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- 469 [LAC 33:III.5113.C.2] Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin.
- 470 [LAC 33:III.5113.C.2] Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation.
- 471 [LAC 33:III.5113.C.3] Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems.
- 472 [LAC 33:III.5113.C.5.a] Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B.
- 473 [LAC 33:III.5113.C.5.a] Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days.
- 474 [LAC 33:III.5113.C.5.d] Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS.
- 475 [LAC 33:III.5113.C.5.e] Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS.
- 476 [LAC 33:III.5113.C.5] Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system.
- 477 [LAC 33:III.5113.C.7] Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ.
- 478 [LAC 33:III.5307.A] Submit initial emissions inventory report: Due to the Department of Environmental Quality on or before October 1, 1994. Submit on a form or in an electronic format specified by the department and include the information specified in LAC 33:III.5307.A.1 through 7.
- 479 [LAC 33:III.5307.B] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 1st of July to the Department of Environmental Quality, Office of Environmental Services, Air Permits Division. Include the information in LAC 33:III.5307.A for the preceding calendar year.
- 480 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 481 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 482 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 483 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 484 [LAC 33:III.5611.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority.

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485 [LAC 33:III.5611.B] During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.

486 [LAC 33:III.5901.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.

487 [LAC 33:III.5907] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.

488 [LAC 33:III.5911.A] Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division.

489 [LAC 33:III.5911.C] Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate.

490 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

RG 9/24/2007

TDI Permit Additional Information List